

ANNEXURE-I**STATUTES GOVERNING ADMISSION TO MASTER DEGREE (OTHER THAN M.PHIL & PH.D. COURSES), BACHELOR DEGREE (LL.B (3 YEARS), B.LIB.I.SC. & B.P.ED), DIPLOMA PROGRAMMES OF STUDY IN THE TEACHING DEPARTMENTS OF THE UNIVERSITY OF JAMMU, JAMMU/ CAMPUSES/ AFFILIATED COLLEGES.****1. ELIGIBILITY:**

A candidate to be eligible for admission to the Master Degree (other than M.Phil and Ph.D), Bachelor Degree (LL.B (3 Years), B.Lib.I.Sc. & B.P.Ed) and Diploma programmes in the University, must have passed/appeared in the final year of the qualifying Bachelor's degree examination of 10+2+3 pattern (Honours or General) in Arts, Science, Commerce, or Business Administration or an examination qualifying for a professional degree of not less than 3 years duration or any other examination recognised as equivalent thereof, from a recognised university/institution with at least 40% of the aggregate marks or as specified (36% for the Scheduled Caste/Tribe candidates).

Candidates who have passed degree course of two years duration under 10+2+2 or 10+1+3 pattern and thereafter have passed bridge course of one year duration comprising Part-III of B.A./B.Sc./B.Com. three years (General) course of the University of Jammu or any other recognised University shall also be eligible subject to the aggregate qualifying marks as indicated above. A candidate who has passed M.A/M.Sc./M.Com. examination from the University after having passed B.A./B.Sc./B.Com. examination under the old pattern of 10+2+2 or 10+1+3 shall also be eligible for admission under second preference category to :

- (a) a course where the minimum eligibility condition is pass in Three Year Degree (General) Course after 12 years of schooling.
- (b) a Master Degree Course in an allied subject, if otherwise permissible under Statutes/Regulations of the University.

Notwithstanding anything contained in Statute 1, a candidate appearing in the final year of the qualifying examinations immediately preceding the Academic Session & expecting to fulfill the Statutory requirement of at least 40% of the aggregate marks in the Bachelor's Degree (36% in the case of candidates belonging to SC/ST) can also appear in the written objective type Jammu University Entrance Test (**JUET**).

2. RECEIPT OF APPLICATION FORM:

A) Applications for admission to various programmes of study (except M.Phil. and Ph.D.) in the teaching departments of the University/ Campuses/Affiliated Colleges shall be received within fourteen (14) days from the date specified in the notification of admission by the University. Application forms prescribed by the University, COMPLETE IN ALL RESPECTS must be deposited at the counter designated by the University ON OR BEFORE THE LAST DATE prescribed by the University for the purpose as per the notification.

The Dean Academic Affairs **may authorise** late entertainment of an application form for admission to a programme of study up to a maximum of three (3) days after the last date prescribed by the University for receipt of application forms, on payment of requisite late fee*. Such applications shall be treated at par with those received in time for purposes of admission.

* See Appendix-II

NOTE: Candidates need not enclose any document/certificate along with the application form at the time of applying for Jammu University Entrance Test. Certificates/documents shall be submitted only at the time of applying to the concerned Department of the University for which a separate notification shall be issued after the declaration of Jammu University Entrance Test result.

Admission to the following programmes shall be made through a separate Entrance Test to be notified by each concerned Department separately after approval from the Dean Academic Affairs.

- i) MBA
- ii) MBA (H&T)
- iii) MBA (IB)
- iv) M.Sc Biotechnology (Except NRI/Self Sponsored seats)

3. GENERAL :

After the declaration of the result of Jammu University Entrance Test (JUET)-, admission to a programme of study in a teaching Department of the University/ Campuses/ Affiliated Colleges shall be made by the Admission Committee of the concerned PG Department of the University with the approval of the Dean of concerned Faculty and the Dean Academic Affairs. The Admission Committees shall consist of members as given in Annexure I (A)

NOTE: For admission to Campuses/ Affiliated Colleges candidate shall apply to the concerned PG Department of the University thus the concerned University Department shall act as Nodal Department for admission to Campuses/affiliated Colleges.

NODAL DEPARTMENTS FOR ADMISSION TO CAMPUSES/AFFILIATED COLLEGES ARE AS UNDER:

S.No	Programme/Subject	Institution	Nodal Department
1.	Chemistry	1. PG Deptt of Chemistry, Univ. of Jammu, Jammu 2. Govt. Degree College, Rajouri 3. Govt. Degree College, Bhaderwah	PG Department of Chemistry, University of Jammu, Jammu.
2.	Computer Science & IT (MCA)	1. PG Deptt. of Computer Sciences and IT, Univ. of Jammu, Jammu 2. Bhaderwah Campus of University of Jammu 3. Ramnagar Campus of University of Jammu 4. Govt. Degree College, Rajouri 5. MBS College, Jammu* 6. MIET, Jammu* 7. BIMTAS, Jammu*	PG Department of Computer Sciences & IT, University of Jammu, Jammu.
3.	M.Sc IT	1. Kishtwar Campus of Univ. of Jammu	PG Department of Computer Sciences & IT, University of Jammu, Jammu.
4.	PGDCA	1. National Institute of Electronics & Information Technology (NIEAIT) Formerly DOEACC* 2. MIER, Jammu* 3. Kalra College of Education & Technology, Udhampur* 4. Dogra Degree College, Jammu*	PG Department of Computer Sciences & IT, University of Jammu, Jammu.
5.	Commerce	1. PG Department of Commerce, Univ. of Jammu, Jammu 2. Udhampur Campus of University of Jammu 3. Govt. SPMR College, Jammu	PG Department of Commerce, University of Jammu, Jammu.
6.	B.Com (Honours)	1. Udhampur Campus, Univ. of Jammu 2. Govt. SPMR College of Commerce	PG Department of Commerce, University of Jammu, Jammu.
7.	Economics	1. PG Deptt. Of Economics, Univ. of Jammu, Jammu 2. Udhampur Campus of University of Jammu	PG Department of Economics, University of Jammu, Jammu.
8.	English	1. PG Deptt. Of English, Univ. of Jammu, Jammu 2. Bhaderwah Campus of University of Jammu 3. GGM Science College, Jammu 4. Govt. Degree College (Boys), Udhampur 5. Bhargava Degree College, Samba*	PG Department of English, University of Jammu, Jammu.
9.	B.A English (Honours)	1. Kathua Campus, Univ. of Jammu	PG Department of English, University of Jammu, Jammu.
10.	Geography	1. PG Deptt. of Geography, Univ. of Jammu 2. Govt. Degree College (Boys), Kathua	PG Department of Geography, University of Jammu, Jammu.
11.	Geology	1. PG Deptt. of Geology, Univ. of Jammu 2. GGM Science College, Jammu	PG Department of Geology, University of Jammu, Jammu.
12.	Hindi	1. PG Deptt. of Hindi, Univ. of Jammu 2. Govt. Degree College (Boys), Udhampur	PG Department of Hindi, University of Jammu, Jammu.
13.	Home Science	1. PG Deptt. of Home Science, Univ. of Jammu (Home Science-Human Development) 2. Govt. Women College Parade Jammu (Home Science-CRME)	PG Department of Home Science, University of Jammu, Jammu.
14.	Food Science & Technology	1. Govt. Women College, Gandhi Nagar, Jammu	PG Department of Home Science, University of Jammu, Jammu.
15.	M.Ed	1. PG Department of Education, Univ. of Jammu 2. Govt. College of Education, Jammu 3. KCS College of Education (women), Jammu* 4. Model Institute of Education & Research (MIER), Jammu *	PG Department of Education, University of Jammu, Jammu.

16.	Mathematics	1. PG Deptt. of Mathematics, Univ. of Jammu 2. Govt. MAM College, Jammu	PG Department of Mathematics, University of Jammu, Jammu.
17.	Music	1. Govt. Women College, Parade, Jammu 2. Govt. Women College, Gandhi Nagar, Jammu	Deptt. of Physical College, Univ. of Jammu along with the representatives of the concerned Colleges
18.	Sociology	1. PG Department of Sociology, University of Jammu 2. Ramnagar Campus of University of Jammu 3. Reasi Campus of University of Jammu	PG Department of Sociology, University of Jammu, Jammu.
19.	Urdu	1. PG Department of Urdu, University of Jammu 2. Govt. Degree College Baderwah	PG Department of Urdu, University of Jammu, Jammu.
20.	Kashmiri	1. Kishtwar Campus, Univ. of Jammu	PG Department of Urdu, University of Jammu, Jammu.
21.	LL.B Professional (3 Years)	1. Department of Law University of Jammu 2. Dogra Law College, Jammu* 3. KC Law College, Jammu* 4. Jammu Law College, Jammu*	Department of Law, University of Jammu, Jammu.
22.	B.A LL.B (5 Year)	5. The Law School, University of Jammu	The Law School University of Jammu, Jammu.
23.		6. Dogra Law College, Jammu*	
24.		7. KC Law College, Jammu*	
25.		8. CMH Law College, Jammu*	
26.		9. Jammu Law College, Jammu*	
27.		10. Ashoka Law College Kathua*	
28.	BBA (HM)	1. School of Hospitality & Tourism Management	School of Hospitality & Tourism Management, Univ. of Jammu
29.	PGDBM	1. The Business School 2. BIMTAS, Jammu*	The Business School

* **Admission in the Private Affiliated Colleges is subject to affiliation by the University of Jammu, Jammu.**

NOTE: In respect of admission to the CAMPUSES / AFFILIATED COLLEGES, The Nodal Departments for the admission shall charge the university fee and remaining fee (if any) shall be charged directly by the respective institutes/colleges.

4. SEATS: Number and Distribution

The number of seats in a programme of study in the Teaching Departments of the University shall be determined before the commencement of the academic session by the Dean of the Faculty and Head of the Department concerned in consultation with members of the teaching staff of the Department and with the approval of the Dean Academic Affairs and wherever necessary, of the Vice-Chancellor/Syndicate/University Council. The number of seats so determined shall be communicated by the Head of the Department concerned to the Dean Academic Affairs before commencement of admission process.

5. OPEN MERIT SEATS:

Sixty-Seven percent (67%) of total number of seats available in a course of study as determined according to Statute 4, shall be filled up on the basis of open merit in accordance with the criteria given in Statute 13.

6. RESERVED CATEGORY SEATS:

(A) After selection of candidates is made on the basis of open merit, the remaining thirty-three percent (33%) seats, notwithstanding any thing contrary contained in any law, S.R.O. or regulation in force in the State, seats under Achievement Categories shall be filled up in accordance with the criteria given at Statute 12.

(B) **Break-up of the Reserved Categories :-**

Category (i) Scheduled Caste	8%
Category (ii)*	
a) Sportsmen	4%
b) Persons who have excelled In Cultural & Literary Activities	2%
Category (iii)*	
a) Persons who have participated with distinction in NCC activities	2%
b) Persons who have participated with distinction in NSS/Bharat Scouts & Guides Activity	2%

Category (iv) Defence Service Personnel including Ex-Servicemen and their children who are permanent residents of the State and have had a satisfactory service record.	2%
Category (v) Candidates belonging to the Areas adjoining the Actual Line of Control.	2%
Category (vi) Candidates belonging to Scheduled Tribes (Gujjar, Bakerwals, Gaddies, Baltis)	5%
Category (vii) Candidates belonging to ST (Resident of the Districts of Leh & Kargil)	2%
Category (viii) Candidates belonging to Backward area other than that of districts Leh & Kargil	2%
Category (ix) Candidates belonging to Weak and Under-privileged Classes as notified in S.R.O. by the State from time to time.	2%

* This will not be applicable in case of admission to M.Ed/M.P.Ed /M.Lib.I.Sc / B.Com (Honour)/B.A. English (Honour) / BBA (HM) and B.A. LL.B (5 Year) Course (For details refer to Statute 10 (A) (i))

EXPLANATION:

- i) *In case only one seat is available under category (ii) or category (iii) the same shall be filled on the basis of comparative merit of all the candidates under category (ii) (a) and (b), or category (iii) (a) and (b) put together, as the case may be.*
- ii) *For determining the number of seats under any reserved category mentioned at Statute 6 (A), fraction of less than one-half shall be ignored and fraction of one half and more shall be treated as one. The benefit of fraction shall be given to each category separately even if it means an overall marginal increase in seats in any course of study.*
- iii) *In the event of number of seats available in a programme of study in a Department being such that representation to all reserved categories is not possible, the department will still provide at least one seat to each reserved category even if it means marginal increase in number of seats.*
- iv) *In case any of the seats remains vacant in a reserved category for want of eligible candidates, the same will be offered to the candidates of non-reserved i.e. open merit group.*

(C) Unless covered under Statute Explanation (i), only such candidates shall be eligible for consideration under reserved categories (i) to (ix) specified at Statute 6 (B) as **have not already availed of this concession for admission to any programme of study in a teaching department of the University in any session.**

(D) Selection of candidates against reserved seats specified at Statute 6 (B) shall be made on the basis of comparative merit in the respective category which will be determined in accordance with the criteria prescribed for categories (i), (iv), (v), (vi), (vii), (viii) & (ix) and for categories (ii) and (iii) as at Statute 12.

(E) **To be a beneficiary of reservation, the candidate must be a permanent resident of J&K State, except when applying under categories (ii) i.e. Sports/Cultural & Literary activities and (iii) i.e. N.C.C./N.S.S/ Bharat Scouts & Guides activities, for which he must have passed the qualifying examination from the University of Jammu.**

(F) Reservation and fee in case of Private Affiliated Colleges and Self Financing Courses shall be governed by their respective regulations issued by the University/State Govt. in this regard.

7. LEFT OVER SEATS:

Under no circumstances, the seats lying vacant in the Departments on the last prescribed date for completion of admission will be filled up by the Head of the Department/Admission Committee unless the candidate falls immediately next in merit to the last admitted candidate. If some seats still remain vacant, these will be referred to the Appellate Committee for consideration.

8. APPELLATE COMMITTEE:

In case a candidate has any specific grievance regarding deviation from Statutes governing admission, he may appeal to the Appellate Committee through Head of the concerned Department, on the prescribed form along with the requisite fee* by the date notified for the purpose. Such an appeal along with the observation of the Head of the Department, shall be considered by the Appellate Committee whose decision in the matter shall be final and binding. It shall be obligatory for the appellant to appear in person before the Committee if called upon to do so. The Appellate Committee shall consist of members as given in Annexure I (B).

* See Appendix- II

9. (A) Should there be any need to augment the resources of the university for maintaining, developing and improving the standards of instruction in any programme of study or for starting a new programme of study in a teaching department of the University, the Vice Chancellor on the recommendation of the admission committee of the department concerned and the Dean Academic Affairs, may sanction self-supporting seats for such programme of study additionally to meet societal obligations. The number of such seats may not ordinarily exceed 15% of the seats determined for the programmes as per Statute 4. These seats shall be supernumerary and thus, shall not count towards determining the quantum of reservation specified at Statute 6 for the various categories. The admission committee shall make admission on the basis of merit determined as per Statute, subject to fulfilment of eligibility conditions for such supernumerary seats. Permanent residents of territorial jurisdiction of the

University/those having passed the qualifying examination from the University of Jammu, shall have priority in admission over the rest against these seats. The admission shall be granted after remittance of amount of fee** prescribed from time to time alongwith other fees/charges for the course by the candidates to the University. **The payment made against the self-supporting seat is not refundable.**

** See Appendix- III

(B) In addition to the Self Financing seats, the Department of Environmental Sciences has eight (8) seats in M.Sc. course exclusively meant for the candidates who are sponsored by Govt. Departments/ Autonomous Bodies/Industry/recognised NGO's***. Such candidates besides fulfilling all the conditions of eligibility prescribed for the course, must have at least one year of permanent service in the sponsoring organisation, except in case of NGO's wherein they must have rendered at least one year of continuous voluntary service after having passed the qualifying degree examination. Admission shall be granted in order of merit, on the production of relevant documents/certificates from the sponsor after remittance of sponsorship amount**** prescribed from time to time along with other fees/charges for the programme by the candidates to the university. **The vacant sponsored seats, if any, may be converted to Self Financing seats subject to the fulfilment of conditions mentioned in Statute.**

*** This is in line with UGC Norms

**** See Appendix- III

(C) Subject to fulfillment of the eligibility criteria and other conditions prescribed for a programme of study by the candidates, seven (7) and four (4) seats respectively in B.Lib.Sc. and M.Lib.Sc. programme, will be filled up by nominees/deputies of the State Govt. and the University of Jammu who are permanent employees of these organisations. Similarly, in LL.B. (Professional) and Diploma in Business Management, two (2) seats each, will be filled up by permanent employees of the University.

EXPLANATION

Permanent employees of the University to be deputed for the programmes (referred at (C) above), shall be nominated by the Vice Chancellor for which he may seek advice of a Committee comprising Registrar and a few senior faculty members of the University.

10. (A) ASSESSMENT IN ACHIEVEMENT CATEGORIES:

Credit for achievement in Sports/Cultural and Literary, and N.C.C./N.S.S./ Bharat Scouts & Guides activities, i.e. reserved categories (ii) and (iii) at Statute 6 shall be given to a candidate seeking admission under these reserved categories as per Statute 12 below, subject to the following conditions

- i) Credit shall accrue only for those events/activities which the candidate has participated during the three **(3) year tenure of the qualifying degree when he has remained a regular student on the rolls of a College/Institution at the under-graduate level** and in case of admission to M.Ed./M.P.Ed/M.Lib. I.Sc Course, on the basis of B.Ed./B.P.Ed/B.Lib.I.Sc which is qualifying Degree. Extra time spent for the qualifying degree and achievement during that period in the above activities will not fetch any credit and thus, shall not count in determining comparative merit of the candidates.
- ii) Credit for being active in the field of Sports to a candidate shall be given only for those games/sports* which the University recognises/participates at various levels.

* See Appendix- VIII

- iii) A candidate applying for consideration under the reserved categories mentioned above must accumulate an achievement score of at least 8 points/marks, (4 points/marks in case of M.Ed./M.P.Ed/M.Lib I.Sc) in the respective fields.

The candidate must have represented the University of Jammu in an Inter-University North Zone competition recognised by A.I.U./B.C.C.I. PROVIDED that if for unavoidable reason(s) the University cancels the participation of its duly selected team for such a competition, the player selected shall be deemed to have represented the University.

Cultural / Literary Activities

The candidate must have been awarded at least a certificate of merit in a competition organised by the University of Jammu such as "Display Your Talent".

iv) Only such candidates shall be considered for admission under the reserved category (ii) i.e. Sports/Cultural & Literary activities, **who have not attained the age of 25 years on September 1 of the year** in which the admission is being sought as per requirement of the Association of Indian Universities (AIU), New Delhi.

v) The College, where a candidate applying under reserved categories Sports/Cultural and N.C.C./N.S.S./ Bharat Scouts and Guides has been a regular student during the 3 year tenure of the qualifying degree, should maintain a record of participation and performance by the candidates in these activities to be signed by Teacher incharge of the activity and the Principal concerned. One counterfoil of the record is retained in the College and the other being sent to Sports/Cultural and N.C.C./N.S.S. wing of the university every quarter of the year so that claims of the candidates, if need be, could be verified.

(B) The marks/points for achievement in Sports/Cultural and Literary, and N.C.C./N.S.S./ Bharat Scouts and Guides fields shall be calculated by a Committee to be constituted by the Vice-Chancellor in consultation with the Dean Academic Affairs, whose decision in the matter shall be final and binding on the candidates.

Separate marks/points for achievement in each event/activity mentioned in the Schedule given hereinafter, shall be awarded on the basis of relevant certificate(s) submitted by a candidate applying under the reserved categories (ii) (sub-categories (a) Sports, (b) Cultural and Literary activities) and (iii) (sub-categories (a) N.C.C., (b) N.S.S./ Bharat Scouts and Guides. Achievement in an event/activity participated in more than once, shall also be awarded separately. All these achievements, however, **MUST pertain only to the three (3) year tenure of the qualifying degree spent as a regular student.** Also, each relevant certificate shall be evaluated ONLY for the event/activity for which it has been issued. (See Statute 12)

11. ELIGIBILITY FOR SPECIFIC PROGRAMMES:

Notwithstanding anything in the preceding clauses, eligibility conditions prescribed for various programmes of study shall be as under:

A) MASTER DEGREE PROGRAMME IN SCIENCES, LIFE SCIENCES & MATHEMATICAL SCIENCES.

For admission to Master's degree programme of study in Botany, Chemistry, Geography, Home Science, Mathematics, Physics and Zoology, a candidate to be eligible, must have passed/appeared in the final year of Bachelor Degree Examination securing requisite percentage of aggregate marks (specified at Statute 1) with a subject which is being opted for admission to a programme. However, the specific conditions for admission to various other programmes are as under:

- i) **Electronics** : A candidate seeking admission to the programme must have passed/ appeared in final year of bachelor degree examination with Electronics or Physics as one of the elective subjects.
- ii) **Geology** : A candidate seeking admission to the programme must have passed/ appeared in the final year of B.Sc examination with Geology as one of the elective subjects.
- iii) **Statistics** : A candidate seeking admission to the programme must have passed/ appeared in final year of bachelor degree examination with Statistics at the under graduate level. The candidates without Statistics but with Mathematics are also eligible for admission.
- iv) **Food Science & Technology**: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination with Food Science & Quality Control/Home Science as elective/additional subjects or Home Science as a full stream.
- v) **Information Technology**: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in Science, Forestry, Agriculture, Pharmacy, Medicine, Veterinary Science, Physiotherapy, Engineering/Technology.
- vi) **Computer Applications and IT (MCA)**: A candidate seeking admission to MCA programme must have passed/appeared in the final year of bachelor degree examination in any stream.
- vii) **Environmental Sciences**: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in Science, Forestry, Agriculture, Pharmacy, Medicine, Veterinary Science, Engineering/Technology.

SELF FINANCING PROGRAMMES * :

- viii) **Biotechnology (Self Sponsored Seats)**: A candidate seeking admission to the programme must have passed/ appeared in the final year of bachelor degree examination in Physical Sciences, Biological Sciences, Pharmacy, Agriculture, Veterinary Sciences, Fishery Sciences, Engineering/Technology, Medicine (M.B.B.S) or B.D.S. with minimum 55% marks.
- ix) **Microbiology**: A candidate seeking admission to the programme must have passed/ appeared in the final year of bachelor degree examination in Biological Sciences, Pharmacy, Agriculture, Veterinary Sciences, Fishery Sciences, Medicine (M.B.B.S), Physiotherapy or B.D.S. with minimum 55% marks
- x) **Biochemistry**: A candidate seeking admission to the programme must have passed/ appeared in the final year of bachelor degree examination in Physical Sciences, Biological Sciences, Pharmacy, Agriculture, Veterinary Sciences, Fishery Sciences, Medicine (M.B.B.S), Physiotherapy or B.D.S. with minimum 55% marks.
- xi) **Human Genetics**: A candidate seeking admission to the programme must have passed/ appeared in the final year of bachelor degree examination in Physical Sciences, Biological Sciences, Pharmacy, Agriculture, Veterinary Sciences, Fishery Sciences, Medicine (M.B.B.S), Physiotherapy or B.D.S. with minimum 55% marks.

xii) Remote Sensing and GIS (Self Financing Programme): A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in Science, Engineering/ Technology, Agriculture, Forestry with minimum 50% marks.

* There is no reservation in Self Financing Programmes.

B) MASTER DEGREE PROGRAMME IN ARTS, SOCIAL SCIENCES, EDUCATION, LAW & MUSIC:

The eligibility conditions for admission to various programmes of study are prescribed as under :

- i) **Dogri:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.
- ii) **English :** A candidate seeking admission to the programme must have passed/ appeared in the final year of bachelor degree examination with English as subject.
- iii) **Hindi :** A candidate seeking admission to the programme must have passed/ appeared in final year of bachelor degree examination with Hindi as an elective/additional subject or honours in Hindi language.
- iv) **Sanskrit :** A candidate seeking admission to the programme must have passed/ appeared in final year of bachelor degree examination with Sanskrit as an elective/additional subject. A candidate with honours examination in Sanskrit or Master's Degree in Hindi is also eligible.
- v) **Urdu :** A candidate seeking admission to the programme must have passed/ appeared in final year of bachelor degree examination with Urdu, Persian or Arabic as elective/additional subject or with honours examination in any of the above said languages.
- vi) **Buddhist Studies:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.
The candidates with following qualifications shall also be eligible:
 - a. Master Degree Examination in any of the following viz. Sanskrit, Pali, Prakrit, Chinese and Tibetan.
 - b. Shastri Examination of Rashtriya Sanskrit Sansthan, New Delhi
 - c. Acharya Examination in Pali, Prakrit, Sanskrit, Chinese or Tibetan of Sampurnanand Sanskrit University, Varanasi, Kameshwar Singh Sanskrit University, Darbhanga, and Rashtriya Sanskrit Sansthan, New Delhi.

In addition to the existing seats, admission will also be open to foreign students fulfilling the eligibility conditions and other legal requirements. 10 (ten) seats are reserved for foreign students.
- vii) **Punjabi:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination with Punjabi as an elective/additional subject or with Honours (Gyani) in Punjabi.
- viii) **Kashmiri:** A candidate to be eligible for admission to the Masters Degree in Kashmiri must have passed/appeared in the qualifying Bachelor Degree examination of 10+2+3 pattern (Honours or General) in any stream from a statutory University/Institution with atleast 40% of the aggregate marks or as specified (36% for the SC/ST candidates). In addition to this a candidate must have studied Persian, Urdu, English Literature, Hindi, Dogri, Arabic, or Punjabi as one of the optional/elective subject provided that the candidate has passed matriculation with a language having Persian (Urdu) script.
- ix) **History:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.
- x) **Political Science:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.
- xi) **Economics:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination with Economics as an elective/additional subject. A candidate having passed/appeared in the final year of B.Com/BBA is also eligible.
- xii) **Sociology:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.
- xiii) **Psychology:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination with Psychology.

- xiv) **Education:** A candidate seeking admission to M.Ed programme must have passed B.Ed OR appeared in the bi-annual examination of B.Ed in previous session. However, those seeking admission to M.A. programme must have passed/appeared in the final year of bachelor degree examination with Education as an elective/additional subject.
- xv) **B.P.Ed (Bachelor of Physical Education):** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream. The candidate must have participated in the inter-collegiate / inter University / National Level Competition in any game/sport recognized by AIU and University of Jammu OR any other University / Institution/ Association/ Federation equivalent thereof. The participation in at least inter collegiate competition is a mandatory requirement. The Physically Handicapped candidate is not eligible for admission to the programme.

The candidates qualifying the written test prescribed by the University shall have to further appear in the Canadian Test to be conducted by the Department of the Physical Education, University of Jammu.

The number of candidates to be invited for appearing in the Canadian Test shall not exceed three (3) times the number of seats available in the Department. The selection for admission shall be made on the basis of merit obtained in the Entrance Test out of those qualifying the Canadian Test.

- xvi) **M.P.Ed (Master of Physical Education):** A candidate who has passed the following examination shall be eligible for the M.P.Ed programme:
- B.P.Ed/D.P.Ed (one year programme after graduation.)
 - B.P.E (four years degree programme).
 - B.P.E (three year with B.P.Ed/D.P.Ed programme of one year duration)
 - Any other programme equivalent to any of the above examination and recognised by the University of Jammu.

The candidate must have participated in the inter collegiate / inter University / National Level Competition in any game/sport recognised by AIU and University of Jammu OR any other University / Institution/ Association/ Federation equivalent thereof. The participation in at least inter collegiate sport competition is a mandatory requirement.

The Physically Handicapped candidate is not eligible considered for admission to the programme.

The candidates qualifying the written test prescribed by the University shall have to further appear in the Canadian Test to be conducted by the Department of the Physical Education, University of Jammu.

The number of candidates to be invited for appearing in the Canadian Test shall not exceed three (3) times the number of seats available in the Department. The selection for admission shall be made on the basis of merit obtained in the Entrance Test out of those qualifying the Canadian Test.

- xvii) **LAW (LL.B – 3 YEARS):** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream with 45% of aggregate marks (40% in case of SC/ST candidates).
- xviii) **B.Lib.I.Sc (Bachelor Degree in Library and Information Science):** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.
- xix) **M.Lib.I.Sc (Master Degree in Library and Information Science):** A candidate seeking admission to the programme must have passed the qualifying B.Lib.I.Sc. examination with at least 55% of the aggregate marks. However, candidates with less than the aforesaid percentage of marks shall also be considered for admission PROVIDED they have at least 10 years of professional experience of working in a University/College/Institution/Public Library.
- xx) **Music:** A candidate seeking admission to the programme must have passed/appeared in final year of bachelor degree in the stream of Music. The candidate with Music as an elective/additional subject at Under Graduate Level or Honours in Music is also eligible.

C) MASTER DEGREE PROGRAMME IN COMMERCE:

A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.

D) DIPLOMA PROGRAMMES:

The eligibility conditions for admission to various Diploma Programmes of study are prescribed as under:

- i) **Post-Graduate Diploma in Business Management:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.
- ii) **Post Graduate Diploma Programme in Human Rights and Duties Education:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.
- iii) **Post Graduate Diploma in Computer Applications:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.

12. SCHEDULE FOR CALCULATION OF MARKS/POINTS FOR ACHIEVEMENTS MADE BY A CANDIDATE DURING 3-YEAR TENURE OF THE QUALIFYING DEGREE PROGRAMME AS REGULAR STUDENT, IN SPORTS/CULTURAL AND LITERARY/ N.C.C./ N.S.S./ BHARAT SCOUTS AND GUIDES ACTIVITIES.

S. No.	Event/Activity participated in	Maximum marks/ Points per Event/ Activity
<u>SPORTS</u>		
1.	Represented the country in any Sport/game competition recognised by the Indian Olympic Association and organised by concerned International Federation	8
2.	Performance /participation at individual/team level in any sport/game in a Senior National Competition recognised by concerned All India Sports Federation/Association/ Board of Cricket Control of India (B.C.C.I), securing :	7
	First Position	7.0
	Second Position	6.5
	Third Position	6.0
	Participation only without securing any position	5.0
3.	Performance /participation at individual/team level in any sport/game in an All India Competition/Federation Cup Competition recognised by concerned All India Sports Federation/Association/Association of Indian Universities (AIU)/BCCI, securing :	6
	First Position	6.0
	Second Position	5.5
	Third Position	5.0
	Participation only without securing any position	4.0
4.	Performance/participation at individual/team level at any sport/game in Inter-Zonal competition recognised by AIU/BCCI, securing:	6
	First Position	6.0
	Second Position	5.5
	Third Position	5.0
	Participation only without securing any position	4.0
5.	Performance/participation at individual/team level in any sport/game in Inter-State North Zone competition recognised by concerned All India Sports Federation/Association/BCCI, securing:	6
	First Position	6.0
	Second Position	5.5
	Third Position	5.0
	Participation only without securing any position	4.0
6.	Performance/participation at individual/team level in any sport/game in Inter-University North Zone competition recognised by AIU/BCCI securing:	6
	First Position	6.0
	Second Position	5.5
	Third Position	5.0
	Participation only without securing any position	4.0

7. Having attended an All India Coaching Camp organised by concerned All India Sports Federation/Association/AIU/BCCI for selection to represent the country in any sport/game, or having been member of a Combined Universities team/ contingent constituted/recognised by AIU for any sport/game. **6**

8. Performance/participation at individual/team level in any sport/game in Junior National competition recognised by concerned All India Sports Federation/Association/ BCCI/ Athletic Federation of India, securing: **3**

First Position	3.0
Second Position	2.5
Third Position	2.0
Participation only without securing any position	1.5

9. Performance/participation at individual/team level in any sport/game in Inter-College competition organised by Jammu University, securing: **2**

First Position	2.0
Second Position	1.5
Third Position	1.0
Participation only without securing any position	0.5

NOTE : Outstanding Sports persons having played in any Senior National event in any of the games shown in Appendix--VIII shall also be considered for admission under Sports category.

CULTURAL & LITERARY ACTIVITIES :

1. Having attended Youth Cultural Exchange Programme at International Level or having participated & performed in any International Youth Festival. **12**

2. Having participated and performed as a member of the State/Jammu University contingent in any solo/group item in National competition, organised by the Association of Indian Universities (AIU)/ State/Central Govt.agency, securing : **10**

First Position	10.0
Second Position	9.0
Third Position	8.0
Fourth Position	7.0
Participation only without securing any position	6.0

3. Having participated and performed as a member of the Jammu University contingent in any solo/group item in an Inter-University Zonal Competition, securing: **9.0**

First Position	9.0
Second Position	8.0
Third Position	7.0
Participation only without securing any position	4.0

4. Having participated and performed as a member of the contingent of an affiliated College/University/ Teaching Department in any solo/group item in a competition namely "Display Your Talent" or any other competition organised by the Department of Students Welfare, University of Jammu securing : **8.0**

First Position	8.0
Second Position	7.0
Third Position	6.0
Certificate of Merit/Consolation Prize	4.0

Such of the candidates who distinguish themselves individually in a team event shall get awards in addition to the above score in the team event : **3.0**

a) For overall best performance	3.0	
b) For Acting Award in One Act Play or Skit:		2.5
i) Best Actor/Actress	2.5	
ii) 2nd Best Actor/Actress	2.0	
iii) 3rd Best Actor/Actress	1.5	
iv) Certificate of Merit/Consolation	1.0	

5. Having participated and performed as a member of the contingent of an affiliated college / university team in any solo / group item in a competition organised by the J&K Academy of Art, Culture and Languages, securing : **7.0**

First Position	7.0
Second Position	6.0
Third Position	5.0

6. Having secured recognition as approved Music/Drama Artist of Akashwani (Primary Service)/ Doordarshan Kendra as certified/ countersigned by the Director Radio Kashmir Jammu/Doordarshan Kendra, Jammu. **4.0**

EXPLANATION : Cultural and Literary activities shall include:

FINE ARTS: Painting, Sketching, Poster-making, Cartooning, Collage, Clay modeling, Rangoli, Flower arrangement, Installation & Photography. **MUSIC:** Light Vocal (Solo), Semi-Classical Vocal (Solo), Classical Vocal (Solo), Western Vocal (Solo), Western Group Song, Indian group song, Classical instrumental(Solo) (Percussion and Non-Percussion). **DANCES:** Classical Dance (Solo), Creative Dance (Solo) and Folk/Group Dance **THEATRICALS:** Mime, Skit, Monoacting, Mimicry and One Act Play presentation. **LITERARY:** Short Story and Essay Writing, Debate, Elocution, Poetry recitation, Quiz competitions and Youth Parliament. Participation in the aforesaid activities will fetch credits only if these are organised and/or authenticated by the concerned Wing/Authority of the University of Jammu i.e. Office of the Dean Students Welfare. Certification to that effect by any other Organisation, Body, Society, Club, University Teaching Department, College, Institution, NGO etc shall not be entertained. Concerned Govt. Departments/Agencies organising competitions in such activities and awarding participants therein, shall have to provide the list of prize winners/participants to the Office of the Dean Students Welfare of the University within a month from the date of completion of such a competition, failing which no credit shall accrue to a candidate seeking admission under Cultural and Literary Activities, though participated therein.

NATIONAL CADET CORPS (NCC)

- | | |
|--|----------|
| 1. Having attended NCC Youth Exchange Programme in foreign countries. | 9 |
| 2. Having attended Republic Day (RD) camp at Delhi and adjudged / Secured position in an individual/ team competition as under : | 7 |
| Best Cadet | 7.0 |
| First Position | 6.5 |
| Second Position | 6.0 |
| Third Position | 5.5 |
| Participation only without securing any position | 5.0 |
| Participation in Local Republic Day and Independence Day Parades | 3.0 |

NOTE: Cadets attend minimum 10 to 15 days preparatory parades for participation in local Republic Day and Independence Day parades held at all District Levels. The certificates must be issued / authenticated by Divisional Commissioner / DC of the concerned districts.

2.1 Thal Sainik (TSC) / Vayu Sainik (YSC) / Nau Sainik (NSC) Camps :

1. TSC / YSC / NSC : These are all India Camps held every year, and are for a duration of 12 days. In these camps cadets represent their Directorate in Inter-Directorate Competitions. The Following All India Inter-Directorate Competitions are held during these camps:-

- Shooting
- Map Reading
- Communication
- Health & Hygiene
- Obstacle Course
- Line Area

Note: To select and prepare cadets for the above competition, three camps of 12 days duration each are held at the Group and Directorate level. Hence, a cadet who finally represents the Directorate at Delhi has to attend four camps of 12 days duration each.

The process of selection and nomination is akin to Republic Day (RD) Camp. Hence TSC/YSC/NSC should be treated at par with RD Camp and points awarded should be equivalent to RD Camp.

- | | |
|---|----------|
| 3. Having been awarded Defence Secretary's / Director General's (DG) medal/ commendation card | 6 |
| 4. Having received/been awarded any of the following : | 5 |
| 1. Commendation/appreciation letter from Deputy D.G.N.C.C, J&K. | 5.0 |
| 2 Medal of Duke of Edinburgh Award | 5.0 |
| 3. Governor's/Chief Minister's Medal. | 5.0 |

4. Best cadet cash Award on overall performance from deputy D.G.N.C.C., J&K. 5.0
 5. Participation in Slithering/Parasailing/Para diving 3.0
 These are individual events that are not included in the list. A cadet has to undergo 7 to 10 days training prior to undertaking this adventure activity.
5. Having passed "C" certificate examination of NCC in 5
 A - grade 5.0
 B - grade 4.5
 C - grade 4.0
6. Having attended any of the following All India NCC Camps of not less than 10 days duration and adjudged / secured position therein in an individual/team competition as under 5
 Best cadet 5.0
 First Position 4.5
 Second Position 4.0
 Third Position 3.5
 Participation only without securing any position 3.0
- EXPLANATION: The Camps are :**
 i) Army Attachment Training Camp;
 ii) National Integration Camp;
 iii) Advanced Mountaineering Camp;
 iv) Trekking Expedition Camp;
 v) Basic and Advanced Leadership courses Camp;
 vi) Snow Skiing and Water Sports courses Camp.
 vii) Rock Climbing Camp.
7. Having successfully undergone NCC para-training course at Agra / courses conducted at IMA/Women Training Camp at Gwalior. 4
 7.1 Basic Mountaineering Course. 4.0
 This is a 15-day camp held at various mountaineering institutes.
 7.2 Pre-TSC-I, II and Pre-RDC, I to III 4.0
 These camps are of duration of 12 days duration each. They should be treated at par with Annual Training Camp (ATC) which is also of 12 days duration:
8. Having passed "B" certificate examination of NCC in : 3
 A - grade 3.0
 B - grade 2.5
 C - grade 1.0
9. Having secured position in an Inter-Collegiate Competition Organised by the University through NCC: 2
 First Position 2.0
 Second Position 1.5
 Third Position 1.0
10. Having attended NCC Annual Training Camp (ATC) of not less than 10 days duration 2
11. Having donated blood in a camp organised by NCC, subject to a maximum of three donations per year to be assessed @ 2 marks/point per donation. (Certificate of the donation must be issued by designated Red Cross Authority/Chief Medical Officer of the District/Blood Bank Officer of Medical College and duly authenticated by the camp incharge. 2

NOTE :

1. No provisional certificates shall be entertained for 'B' and 'C' certificate examination.
2. A candidate has to earn minimum score of eight credits to be eligible for consideration of Admission under NCC category.
3. No certificate shall be entertained unless issued by the concerned authorities / agency with proper seal and signature.
4. The highest marks of an event in the same category shall be awarded.
5. RD/ID Certificates issued only by Divisional Commissioner/Deputy Commissioner shall be considered.
6. For admission under the category of NCC participation during the 3 year tenure of B.A./ B.Sc/ B.Com./ B.B.A./ B.C.A.(General course 10+2+3) shall be considered.

NATIONAL SERVICE SCHEME (NSS)

- | | | | |
|----|--|-----|----------|
| 1. | Having participated in international NSS Youth Exchange Programme | | 9 |
| 2. | Having been awarded for NSS activities with any of the following | | 8 |
| | a) Governor's Medal | 8.0 | |
| | b) Education Secretary's Commendation card/Medal | 6.0 | |
| | c) Certificate of rendering 120 hours of social service
Continuously for 2 years (Vice-Chancellor's Commendation Certificate) | 5.0 | |
- EXPLANATION :** To obtain 120 hours social service certificate as mentioned above, report concerning 120 hours social service rendered in addition to the regular, special and NSS camping activities along with 'NSS' Work Diary' certified and verified by concerned NSS Programme Officer, Principal/Chairman, along with documentary evidence, shall be submitted to the NSS Co-ordinator. The Chairman, NSS Advisory Committee/Vice-Chancellor shall issue such a certificate on the basis of the report of NSS, Programme Co-ordinator. All documents as per directions & norms should be submitted in the month of April.
- | | | | |
|----|---|-----|------------|
| 3. | Having participated in Republic Day Camp, New Delhi as follows | | 7.0 |
| | a) Having attended & been adjudged as Best NSS
Volunteer/ Commander in the RD. Camp | 7.0 | |
| | b) Having only attended the Camp | 6.0 | |
| | c) Having attended Pre-Republic Day camp
organised by Govt. of India | 5.0 | |
| | d) Having attended Two day selection workshop
for Pre RD. Camp organised by the University | 3.0 | |
- | | | | |
|----|--|-----|------------|
| 4. | Having participated in all India Camp such as National Integration Camp/All India Youth Camp/Youth Festival
organised by University/Regional Centre, NSS in collaboration / sponsored by Govt. of India, Ministry of Youth
Affairs and Sports. | | 6.0 |
| | - Best Volunteer (overall) | 6.0 | |
| | - Participation | 5.0 | |
- | | | | |
|----|---|-----|------------|
| 5. | Having participated in Inter College NSS Camp organised by University/College for duration of not less than 7
(seven) days & sponsored by University/State Govt. | | 5.0 |
| | - Best Volunteer (overall) | 5.0 | |
| | - Participation | 4.0 | |
- | | | | |
|----|---|--|------------|
| 6. | Having participated in NSS Camp of not less than 10 Days duration organised by the College. (Subject to the
submission of list of the participants with their full description in the office of NSS, Programme
Coordinator.) No credit will be given in case of such colleges where the records of the Special Camps have
not been submitted in the NSS Office within one month of the organisation of such camps. A maximum of three
Annual Camps (10 days duration) at U.G. level shall be considered for admission under NSS achievement
category. | | 4.0 |
|----|---|--|------------|
- | | | | |
|----|--|-----|------------|
| 7. | Having secured in any recognised individual inter-collegiate/collaboration with Govt. of India / State Govt. / any
Govt. Deptt. | | 3.0 |
| | First Position | 3.0 | |
| | Second Position | 2.5 | |
| | Third Position | 2.0 | |
- | | | | |
|----|---|--|------------|
| 8. | Having participated in a Two/Three Days Training Workshop on Youth Leadership or on any relevant Social
issue organised in the Office of the Programme Coordinator, NSS in collaboration with State Govt. / GOI /
NGO's.
OR
Having participated in a Two/Three Day Training Workshop Course on Youth Leadership or on any relevant
Social Issue organised by the college NSS units. Provided that permission for such workshop has been
obtained 15 days prior to the commencement from the Programme Coordinator, NSS University of Jammu on
the recommendations of the Programme Officer of the concerned college. The list of the participants has to be
submitted in the office of the Programme Coordinator, NSS University of Jammu within Ten days of the
completion of workshop. | | 3.0 |
|----|---|--|------------|
- | | | | |
|----|---|--|--|
| 9. | Having participated as a member of the NSS unit of College in camps/courses of not less than seven (7)
days duration organised by Govt./Semi Govt. agencies/NGO's/ Social Organisation in
coordination/collaboration with NSS, Programme Coordinator/Regional Centre. Provided that permission for
such participation has been obtained 15 days prior to the commencement of the camp/course from the | | |
|----|---|--|--|

Programme Coordinator, NSS on the recommendation of the Programme Officer of the concerned unit and the Principal of the concerned college. **3.0**

10. Having donated blood through NSS unit of the colleges subject to a maximum of 3 donations per year, to be assessed @ 2 marks/points per donation, on the production of a certificate to be issued by District Chief Medical Officer/Blood Bank Officer of a Medical College/Red Cross Authority and duly authenticated by Incharge NSS Unit P.O./ Principal. **2.0**

NOTE :

1. The certificate issued with effect from 2007-08 session should bear the VEC (Volunteer Enrolment Code) number issued by the office of NSS Programme Coordinator. No certificate without VEC number will be eligible for the admission purpose.
2. A candidate has to earn minimum score of eight credits to be eligible for consideration of Admission under NSS category.
3. The highest marks of an event in same category shall be awarded.
4. Each certificate issued by the NSS units should be authenticated by the office of NSS Programme Coordinator. No certificate without proper authentication shall be considered for admission under NSS category.
5. The Programme Officer/s, NSS of the college & concerned has to submit a list of participants of an event duly forwarded by the Principal alongwith the certificates to be authenticated by the Programme Coordinator, NSS, University of Jammu.
6. No inter college activity can be organised at the college level without the prior permission of the office of the Programme Coordinator, NSS, University of Jammu.
7. For admission under the category of NSS participation during the 3 year tenure of B.A./B.Sc./B.Com./B.B.A./B.C.A. (General course 10+2+3) shall be considered.

BHARAT SCOUTS & GUIDES

The admission under the Bharat Scouts & Guides may be offered to such students, who fulfill the eligibility conditions to be determined on the basis of the list of activities given below:

- | | |
|--|----------|
| 1. Participated in International Events organised by National HQRS of Bharat Scouts & Guides | 9 |
| 2. President Awardee (Scouts & Guides / Rovers & Rangers) | 8 |
| 3. Vice-President Awardee (Rovers & Rangers) | 7 |
| 4. Prime Minister Shield Competition Awardee (Scouts & Guides) | 6 |
| 5. Governor's Rajya Puskar & Certificate of Honour (Scouts & Guides) | 6 |
| 6. Participation in Jamboree / National Camps organised by National HQRS of Bharat Scouts & Guides (Scouts & Guides / Rovers & Rangers) | 5 |
| 7. Participation in State Level Special Camps organised by J&K Bharat Scouts & Guides (Scouts & Guides / Rovers & Rangers) | 4 |
| 8. Having completed Parvesh, Parveen and Nipun stages of Rovers & Rangers of J&K Bharat Scouts & Guides. (Rovers & Rangers) | 3 |
| 9. Having donated blood through Bharat Scouts & Guides to a <u>maximum of 3 donations per year</u> to be assessed @ 2 marks / points per donation on the production of a certificate to be issued by District Chief Medical Officer / Blood Bank Officer of a Medical College / Red Cross Authority and duly authenticated by State Chief Commissioner J&K Bharat Scouts & Guides. | 2 |

13. MERIT DETERMINATION:

Admission to the PG Departments of the University/ Campuses/Affiliated Colleges shall be made on the basis of Entrance Test and Academic Merit of Graduation. The weightage to be accorded to the Entrance Test and Academic Merit of Graduation shall be 70:30 respectively. The each year of Graduation ie. Part I, II, & III shall be accorded the weightage of 10% each.

Inter-se-merit of a candidate seeking admission to a programme of study in a teaching department, shall be determined by the concerned admission committee and where necessary, in consultation with the Committee constituted to assess achievement in reserved categories of Sports/Cultural & Literary, and N.C.C./N.S.S./Bharat Scouts & Guides activities.

(A) Selection Criterion for Admission.

The criteria to determine merit shall be as follows:

1. Admission to the PG Departments of the University of Jammu, Jammu/ Campuses/Affiliated Colleges shall be made on the basis of Entrance Test and Academic Merit of Qualifying Examination. The final merit of a candidate out of 100 shall be calculated by giving a weightage of 70 i.e. marks obtained in the Entrance Test and a weightage of 30 to the percentage of marks obtained in the qualifying examination- the 30 shall be calculated by giving the weightage of 10% each to the percentage of marks in Part I, II & III.

NOTE: For admission to the programmes like M.Ed/M.P.Ed/M.Lib.I.Sc/B.Com (Honours)/B.A English (Honours)/ B.A. LL.B (5 Year)/ BBA (HM) etc the weightage of 30 to the percentage of marks obtained in the qualifying examination shall be accorded so as to calculate the academic merit of the candidate.

2. *There shall be 70 objective type questions carrying one (1) mark each for each subject/programme: 60 questions of the concerned subject/programme within the notified syllabus and 10 questions on Logic and Reasoning.*
3. *Candidates can apply for appearing in the Entrance Test of a maximum of **5 Programmes**. The duration for each paper shall be **75 minutes** (ie. One hour and fifteen minutes). The examination shall be spread over 11 days. There shall be **4 subject specific tests on each day spread over two shifts**. The schedule shall be as follows:*
 - a) **Shift One** Paper I (10:00 to 11:15 hrs IST)
 Paper II (12:00 to 13:15 hrs IST)
 - b) **Shift Two** Paper III (14:00 to 15:15 hrs IST)
 Paper IV (16:00 to 17:15 hrs IST)
4. *Every wrong answer shall be awarded **minus (-) 0.33 marks**. The candidate is required to obtain a minimum of 21 marks out of 70 questions for each subject/programme for general category candidates and 17 marks out of 70 for candidates belonging to SC/ST/ST (residents of Leh & Kargil) category to be considered for admission.*
5. *If the number of candidates who qualify the Jammu University Entrance Test (**JUET**) is less than the number of seat in Open Merit or Reserved Categories, relaxation upto 4 marks in the Entrance Test may be allowed by the Hon'ble Vice-Chancellor on the recommendation of the Admission Committee of the concerned Department.*
6. *The tie between candidates seeking admission shall be resolved by reference to the marks in the Entrance Test, if the tie persists then the tie shall be resolved by reference to the aggregate marks in first Degree i.e. B.A/ B.Sc./ B.Com/BBA/ BCA etc examination & if, the tie still persists, to their marks in the Part- III of the Qualifying Examination & if the tie still persists, then to their higher marks in Part II of the said Examination. Higher marks in the said examination shall determine priority in Admission.*

(B) Selection Criteria for Achievement Categories.

Merit of the candidates applying under reserved categories of Sports/Cultural & Literary, and NCC/NSS/ Bharat Scouts and Guides activities specified at Statute 6 shall be determined on the basis of (i) marks/points awarded to such a candidate for these activities, plus (ii) one-fourth (1/4) of the PERCENTAGE of marks *calculated by giving a weightage of 70 i.e. marks obtained in the Entrance Test and a weightage of 30 to the percentage of marks obtained in the qualifying examination- the 30 shall be calculated by giving the weightage of 10% to the percentage of marks in Part I, II & III*. The composite score thus calculated, shall form the basis of admission, PROVIDED that the candidate seeking admission unless covered under Statute 13. Explanation e(i), has not been admitted to any programme of study in the University in an earlier under the aforesaid reserved categories. PROVIDED also, that where candidates have obtained equal composite score, the tie shall be resolved by reference to their achievement merit in the respective activity determined as per Statute. Higher achievement merit shall determine priority in admission.

ACHIEVEMENT SCORE + $\frac{1}{4}$ {ENTRANCE TEST MARKS + (10% weightage each to the Part I, II & III of Graduation)}

NOTE: For admission to the programmes like M.Ed/M.P.Ed/M.Lib.I.Sc/B.Com (Honours)/B.A English (Honours)/ B.A. LL.B (5 Year)/ BBA (HM) etc the weightage of 30 to the percentage of marks obtained in the qualifying examination shall be accorded so as to calculate the academic merit of the candidate.

14. ORDER OF ADMISSION:

Subject to fulfillment of eligibility criteria and other conditions prescribed for a course of study, admission in a teaching department of the University shall first be given to a candidate who;

(A)

- (i) has passed/appeared in the qualifying examination from the University of Jammu; or
- (ii) is a permanent resident of the territorial jurisdiction of the University but has passed/appeared in the qualifying examination or an equivalent examination from a University other than the University of Jammu; or
- (iii) has passed/appeared in the qualifying or equivalent examination from the University of Kashmir and seeking admission to a course **which does not exist in the University of Kashmir**, subject to the condition that such concession is also provided by the University of Kashmir for students who have passed/appeared in the qualifying or equivalent examination from University of Jammu and seek admission to a programme of study in the University of Kashmir for which arrangement for teaching does not exist in the University of Jammu; or
- (iv) is an employee of the Central or a State Government or a Public Undertaking or any other organisation recognised for the purpose by the Syndicate, posted within the territorial jurisdiction of the University, or son/daughter/spouse of such an employee; or
- (v) is not permanent resident of the territorial jurisdiction of the University of Jammu, but has passed/appeared in B.A./B.Sc./B.Com./B.B.A/B.C.A.(General or Honours examination, 10+2+3 pattern) with not less than 60% marks from a University other than the University of Jammu, subject to the condition that the number of seats under this category shall not exceed 10% of the total number of seats available in a programme of study.

(B) After making admission of students falling under Statute 14(A) if seats in any course of study remain vacant these shall be open to such other candidates as have passed/appeared in the qualifying examination from any recognised University provided they have applied in time and are otherwise eligible.

NOTE:

In view of rampant reports of fake certificates and fake Universities, the University reserves the right of screening applicants seeking admission who have obtained their qualifying degrees from Universities other than the University of Jammu, and evaluating their competence before considering them for admission in a manner as would be notified by the Office of the Dean Academic Affairs from time to time.

In pursuance of the decision taken by the Standing Committee of the Academic Council at its meeting held on 5th September 2005 vide Notification No.F.Acd/V/128/05/6368-6517 dated 05/10/2005, any course run by Study Centres/franchises of any University in the Country except IGNOU, is not recognised.

15. Unless otherwise provided for in these Statutes, a person after having passed/appeared in the B.A/B.Sc./B.Com./B.B.A / B.C.A. (General Examination, 10+2+3 pattern) or an examination recognised equivalent thereto, seeks admission for the first time to a Post-Graduate programme or a Diploma Course in a department of study of the University shall be given preference over a person who has already undergone any Post-Graduate Course or LL.B. (Professional) programme in any University.

NOTE :

This Statute shall also be applicable to other P.G. Departments where the admission is done through a separate Entrance test.

EXPLANATION :

(i) *Such of the candidates who have pursued LL.B. (Professional) or a Post-Graduate programme for not more than first two semesters or one academic year in a teaching department of this or any other University, or have not passed any Post-Graduate examination as a private candidate, shall be treated at par with students seeking admission to a Post-Graduate programme/LL.B. (Professional) in the University for the first time PROVIDED that admission under such a parity shall be considered only once i.e. in the session immediately following the first admission.*

(ii) *Persons having pursued one year Diploma Programme in a teaching department of any University or have obtained B.Lib.Sc. or B.Ed. degree shall be treated at par with the students who are seeking admission to LL.B. (Professional)/a Post-Graduate Programme in the University for the first time.*

16. Notwithstanding anything contained in these Statutes, a student who having fallen short of attendance for reasons beyond his control becomes ineligible to appear in the University examination shall be considered for fresh admission in the next consecutive year in the same programme of study in which he fell short of lectures in the preceding year alongwith those who apply for admission to a programme of study in the University for the first time. This concession shall be available to a candidate only once PROVIDED that he figures in the merit list and also, that conduct of such a candidate during his previous stay in the department has been to the entire satisfaction of the Head of the Department concerned.

17. (A) Subject to fulfillment of eligibility conditions, the Vice-Chancellor may at his discretion, authorise admission to a programme of study of either a totally blind or an orthopedically handicapped candidate suffering a degree of disability of 45% and above.

EXPLANATION

(A) (i) *Admission of a student authorised by the Vice-Chancellor under this Statute shall be a supernumerary seat in a programme of study in the department.*

ii) *Certificate of an orthopaedic handicap or blindness shall be considered only if it is issued by the Head of the Department of Orthopaedics or that of Ophthalmology of a Govt. Medical College. The Vice-Chancellor, if he so desires, may seek advice in the matter, of a Committee to be appointed by him on the recommendations of the Dean Academic Affairs.*

(B) (i) The University may, subject to fulfillment of eligibility conditions, consider the admission of one candidate in each programme belonging to Kashmiri migrant families, in the order of merit, not exceeding one in a particular programme, provided that such a candidate produces documentary evidence of belonging to a family registered as Kashmiri migrant subject to production of the said Certificate from the Relief Commissioner. Such admission may be authorised by the Dean Academic Affairs against a seat which shall be supernumerary in a programme of study in the department.

(ii) The University may, subject to fulfillment of eligibility conditions consider the admission of one candidate in each programme belonging to the wards of permanent employees of the University of Jammu (Teaching/ Non-Teaching), in order of merit, not exceeding one in a particular programme. Such admission may be authorised by the Dean Academic Affairs against a seat which shall be supernumerary in a programme of study in the Department.

18. Any person in employment or self employment or engaged in a business or profession, is not eligible for admission to any whole time programme i.e. a programme conducted during the day time, in the University teaching departments. Such a person may, however, be considered for admission, PROVIDED that :

(i) if in employment, he will produce a certificate from his employer that the employer has no objection to his pursuing a whole time programme in the University, and that the employee is on authorised leave for the purpose of study in the University;

(ii) if self employed or engaged in a business or a profession, he will give a written undertaking to devote his whole time for studies as a student during the period he remains on rolls of the University teaching department and he shall not engage in any business or profession or avocation during this period or engage in any activity which is likely to interfere with his studies in the University. Such cases will be examined by the Admission Committee which will make appropriate recommendations to the Dean Academic Affairs

EXPLANATION :

All programmes shall be treated as whole time programmes of study, except Post-graduate Diploma Programme in Business Management, so long as its classes are held in the evening.

CANCELLATION :

19. Each candidate who is granted admission shall not take up any employment or engage in any business or profession so long as he is on the rolls of the University. Any student who takes up an employment or engages in business or profession in violation of the Statutes, his name shall be struck off from the rolls of the teaching department of the University.

20. The Admission Committee concerned, with the approval of the Dean Academic Affairs, shall have the authority to refuse or cancel admission of a candidate/student who :

(i) either fails to produce the requisite certificate in original within the time prescribed or provides information in his application form which is found incorrect or produces a certificate which is not genuine.

(ii) in the opinion of the Admission Committee, has taken up employment or avocation which is likely to interfere with his studies in the University.

(iii) fails to pay the fees and deposits including Hostel fees and deposits, within the time prescribed by the Warden of the Hostel concerned.

21. The Head of the Department shall be competent to cancel admission of a student enrolled for a programme of study in the department if the student remains absent without permission of the Head of the Department concerned for a period of 15 days continuously and/or does not attend 50% or more of the total lectures delivered in the Semester concerned, PROVIDED that before cancellation of admission, the concerned Head of the Department will provide an opportunity to such a candidate to explain why action be not taken against him.

NOTIFICATION AND FEE :

22. Names of the candidates selected for admission shall be notified from time to time on the Notice Board of the Concerned Department. he candidates shall be required to watch such notifications and comply with the instructions given in all respects failing which their selection shall be cancelled and no complaint will be entertained in this regard.

23. Admission fee and other charges payable by each student selected for admission to a programme of study shall be such as may be prescribed from time to time*.

* See Appendix- II & III

Provided that if a student having been admitted to a programme in a teaching department and having deposited the required fees is selected subsequently, in the same session, in any other department of the University, may be allowed transfer of fee deposited by him, by the Admission Committee.

Provided further that if a student has been admitted to a programme wishes to discontinue within the days of admission including late admission in a session, refund of the charges/fees paid by him may be authorised after deducting the following :

(i) all such fees as are transferred or transferable for deposit in the University chest ;

(ii) such percentage of fee forming part of the local funds of the department actually spent for or on behalf of the student concerned, as may be decided by the Head of the Department concerned.

CONTINUED ENROLMENT:

24. A candidate having passed 1st, 3rd or 5th semester examination of the Master's Degree Programme as a private candidate shall not be granted admission to 2nd, 4th, and 6th semester of a programme as a regular student, PROVIDED that in case of availability of seats, the Dean Academic Affairs may, on the recommendations of the Admission Committee, authorise admission of a candidate **who has passed all programmes of 1st semester examination and has appeared in all the programmes prescribed for the 2nd semester examination as a private candidate to the 3rd semester of a programme of study.**

Admission of regular students to 3rd semester in a programme of study except where provided otherwise, will be made only if they have earned atleast 50% credits in programmes of 1st semester (40% credits in M.Com 1st semester) and also if they have passed in Internal assessment in all programmes of the 2nd semester and fulfil the attendance requirement.

25. Continued enrolment in the II, III and IV (V and VI where applicable) semester of a programme shall be granted on the prescribed form to be submitted by every student seeking continuation of admission to the concerned semester. Enrolment to the II & IV (VI where applicable) semester shall be completed by the Head of the Department concerned within 15 days from the date of termination of I/III (V where applicable) semester examination. Enrolment to the III (and V where applicable) semester shall be completed within 15 days from the date the class work of III/V semester starts:

Provided that a prescribed late fee* shall be paid by each student seeking admission after the last prescribed date, upto a maximum of 15 days delay where after no admission shall be granted.

Notwithstanding anything contained above, the Vice-Chancellor may alter the above schedule of continued enrolment.

26. A regular student who after having passed all the prescribed courses of I and II, or III and IV semester examinations of Master Degree/LL.B. (Professional), discontinues his study for good and sufficient reasons to the satisfaction of the Head of the Department concerned, may be considered for admission to III, or V semester of the course, as the case may be, PROVIDED that not more than one year has elapsed after his having passed the II or IV semester examination in the concerned programme of study. Such a break shall be allowed only once during a programme of study. PROVIDED further that such a student will have to offer courses which are prescribed for the session to which admission is being sought unless it leads to repetition of any course(s) of the Programme of study.

27. If as a result of re-evaluation, a candidate passes in the B.A/B.Sc./B.Com./B.B.A./B.C.A. Part III (Final Examination), he/she shall be considered for **admission in a Teaching Department only if seat/s is/are available and** the merit of such a candidate is higher than that of the candidate who is at the top of the waiting list of the concerned teaching department.

Provided further that no admission shall be made in the teaching department (working on Semester Pattern) of the University after 15 working days of the commencement of the teaching in the department concerned or 20 calendar days after the meeting of the Appellate Committee whichever happens to be later.

The attendance and internal assessment of a candidate who is granted admission under this statute shall be counted from the date of his/her admission.

PERIOD OF STAY:

28. No student can remain on rolls in the teaching departments of the University exceeding the period indicated against each, if he/she has pursued more than one programme of study:

i) Master's Degree Programme and Diploma Programme:	4 year
ii) Master Degree & LL.B:	6 year
iii) LL.B. (Professional) and MCA:	7 year
iv) LL.B (Professional) & Diploma Programme:	5 Year
v) B.A. LL.B (5 year) & Diploma Programme:	7 year
vi) B.A. LL.B (5 year) & Master Degree:	8 year
vii) B.A. LL.B (5 year) & MCA:	9 year

EXPLANATION:

(i) Stay in the University would mean stay in all teaching departments of the University put together,

(ii) 4/5/6/7/8/9 years would include the period required for completion of the programme in which admission is sought.

(iii) Admission of a candidate who has already pursued two Master Degree Programmes OR Ph.D / M.Phil Programme is / are not eligible to seek admission to another PG/Diploma Programme.

PERMISSION FOR PRACTICALS TO PRIVATE CANDIDATES :

29. A Science department may accord permission to members of the Laboratory Staff of the University, and such teachers who hold at least 5 years of teaching experience in a school recognised by the J&K Government, to perform the required number of practicals to earn eligibility for appearing in the Master's Degree examination as a private candidate. Required teaching experience certificate issued/endorsed by the Director, School Education, Jammu will have to be enclosed with the application form.

This permission may be granted to one candidate each year on the basis of merit. This facility will not encroach upon the number of seats meant for open merit category. If any seat falls vacant after the last date of admission, that may also be used for granting similar permission to the other beneficiaries in the above category and the Scientific Staff of the Indian Institute of Integrative Medicine, Jammu (Erstwhile Regional Research Laboratory, Jammu) in accordance with the Statutes provided that such a permission shall not be granted after one week of the close of admission.

30. There shall be a Committee consisting of members as given in Annexure I (C) to interpret these Statutes whose decision shall be final and binding.

(A) ADMISSION COMMITTEE

- i) Dean of the Faculty concerned
- ii) Head of the Department concerned
- iii) Two or more teachers nominated by the Dean Academic Affairs on the recommendation of the concerned Head of the Department. Three members shall form quorum of the committee.

(B) APPELLATE COMMITTEE

- i) Vice-Chancellor (Chairman)
- ii) Dean Academic Affairs
- iii) Dean of the Faculty concerned
- iv) Convenor of Board of Studies in the subject.
- v) Head of the Department concerned

(C) INTERPRETATION COMMITTEE

- i) Dean Academic Affairs (Chairman)
- ii) Deans of Faculties of Arts, Social Sciences, Education, Commerce, Management Studies, Behavioural Sciences, Law, Sciences, Life Sciences & Oriental Learning.
- iii) Registrar
- iv) Asstt. Registrar Academic Affairs (Secretary). Majority of members shall form the quorum in all matters relating to the interpretation of the statutes. Decision of the committee shall be final and binding.

(D) COMMITTEE FOR ASSESSMENT IN ACHIEVEMENT CATEGORIES :

The committee shall comprise of the following :-

- i) One nominee of Dean Academic Affairs who shall act as Chairman of the Committee.
- ii) Two Heads of Departments/ University Professors.
- iv) Evaluators from each reserved category to be nominated by the DAA in consultation with NSS Co-ordinator/Dean Students Welfare/Director Sports/NCC. The Committee shall have the power to co-opt any other member/s to assist it.

A. ADMISSION FEE AND OTHER CHARGES		
S. No.		IN INDIAN RUPEES
1.	Admission fee	Rs.220 (To be deposited in the University Chest)
2.	University Sports fee	Rs.190 (To be deposited in the University Chest)
3.	University Development fund	Rs.330 (To be deposited in the University Chest)
4.	Magazine/University News Bulletin fee	Rs.60 (To be deposited in the University Chest)
5.	Corpus fund	Rs.640 per student admitted in the Non-Govt. Colleges of the University, to be deposited by the respective College(s) every year along with the RR and Rs. 110/- per student admitted in the Govt. Colleges / University Deptt./ Campuses, to be deposited in the University Chest.
6.	Library fee	Rs.110 (To be deposited in the University Chest)
7.	Science fee	Rs.440 (To be deposited in the University Chest)
8.	Stationery fee (All Departments except Law Deptt. Where the fee shall be Rs. 80/- for LL.B. & Rs. 225/- for LL.M. Course / Diploma Course. Out of Rs 80/-, Rs. 40/- to be retained by the Law Deptt. in the Local Fund and Rs. 40/- to be remitted in the University Chest. Rs. 200/- to be retained by the Law Deptt. in the Local Fund) & Rs. 25/- to be remitted in the University Chest	Rs.130 (Rs. 40/- to be retained by the Deptt & Rs. 90/- to be remitted in the Univ. Chest)
9.	Games fee	Rs.220 (Rs. 165/- to be deposited with the Deptt. of Physical Education & Rs. 55/- to be retained by the Deptt.)
10.	Cultural/Literary fee	Rs.80 (To be remitted to the Dean, Students Welfare)
11.	Social Activities fund	Rs.70 (to be retained by the Deptt.)
12.	Student Assistance/Aid fund	Rs.50 (to be retained by the Deptt.)
13.	Reading Room fee	Rs.80 (to be retained by the Deptt.)
14.	Excursion fee :	(Actual expenditure to be realised by the Department at the time of conducting the excursion)
15.	Identity Card	Rs.20 (to be retained by the Deptt.)
16.	Miscellaneous	Rs.20 (To be remitted to the Deptt.)
17.	Medical Assistance	Rs.50 (To be remitted to the Univ. Health Centre)
18.	NSS Fee	Rs.60 (To be remitted to the NSS Programme Coordinator)
19.	Library development fund	Rs.220 (To be remitted to the Dhanvantri Libray)
20.	IQAC Fee	Rs.110 (To be remitted to Direcotr, DIQA)
21.	Practical Training fee (to be charged from the students joining LLB Course	Rs.110 (to be retained by the Deptt. of Law, and utilized for the purpose and in the manner as prescribed by the regulations in this regard)
22.	Student Insurance Fee	Rs.50 (To be deposited in the Univ. Chest)
23.	Smart Card Fee	Rs.60 (To be deposited in the Dhanvantri Library)
24.	Supervising Practice Fee for admission to MA Education	Rs.440 (To be remitted to the Deptt. of Education)
25.	Examination Development Fund	Rs.130 (To be remitted to the Controller of Examinations)
26.	Prospectus-cum-Brochure	Rs.250 (To be deposited in the Univ. Chest)
27.	Digilization and Networking Fund	a). Rs. 190/- to be realized from each student at the time of seeking admission in any of the professional courses being run by the Non-Govt. Colleges affiliated with the University b). Rs. 100/- to be realized from each student of all the Govt. Colleges at the time of admission every year
28.	Examination Maintenance Fund	Rs.60 (Rs.25/- as maintenance of service fee & Rs. 35/- as desk fee) -To be retained by the Controller of Examinations
29.	Service Charges	3% of the total fee (less Rs. 640/- realized as Corpus Fund deposited by Students admitted in Non-Govt. College for various

		Courses of the Univ. to be deposited by the Non-Govt. College/s every year)
30.	Foreign Students Fee/ Overseas Campus Charges*	1. US \$ 1100 (for regular) 2. US \$ 1250 (for private)
* Foreign students fee shall be charged from the candidate at the time of admission, in addition to the normal fee and this fee be utilized on the lines of the Self Financing seat fee fund.		
B. DEPOSITS (REFUNDABLE)		
31.	Laboratory deposit	Rs.400 (To be retained in the Deptt.)
32.	Library deposit	Rs.400 (to be retained in the Deptt.)
The candidates admitted to the Department of Home Science shall also be charged Rs. 250/- per student for each of the two semesters (i.e. I and III semester) as Teaching practice fee annually.		
C. LATE FEE & APPEAL CHARGES ETC.		
1.	Cost of Appeal Form	Rs.30
2.	Fee for Filing Appeal	Rs.220
3.	Late fee to receive application form upto a maximum of 3 days after the lastdate prescribed for the purpose.	Rs.60 (Draft Addressed to Dean Academic Affairs, Univ. of Jammu, 'Head Service Charges'.
4.	Continued Enrolment fee	Rs.110 per semester
NOTE :		
1. Blind and Physically handicapped candidates as defined in the statutes shall be exempted from payment of all the fees including charges for supervision and amanuensis.		
2. Admission fee and other charges in case of affiliated Colleges and Self Financing courses shall be governed by their respective regulations issued by the University / State Govt. in this regard.		
3. In respect of admission to the CAMPUSES / AFFILIATED COLLEGES, The Nodal Departments for the admission shall charge the university fee and remaining fee (if any) shall be charged directly by the respective institutes/colleges.		

**AMOUNT OF FEE TO BE REALIZED FROM THE STUDENT
ADMITTED AGAINST SELF FINANCING SEATS**

S.No	Name of the Programme	Amount (In Rupees)
1.	MCA: Computer Science & IT	3.00 lacs
2.	M.Sc (IT)- Kishtwar Campus of Univ. of Jammu	1.00 lac
3.	M.Sc: Physics, Electronics	1.50 lacs
4.	M.Sc.: Botany, Zoology, Chemistry	2.00 lacs
5.	M.Sc: Environmental Science	2.00 lacs
6.	LL.B: 3 years	1.00 lac
7.	M.Sc/M.A.: Home Science (CRME)/ Human Development	0.60 lac
8.	M.Sc: Food Science & Technology	0.50 lac
9.	M.Sc./M.A.: Statistics	0.90 lac
10.	M.Sc/M.A.: Geography	0.80 lac
11.	M.Sc/M.A.: Mathematics	1.00 lac
12.	M.Sc.: Geology	1.00 lac
13.	M.Com: Commerce	0.65 lac
14.	M.A.: Sociology, Economics	0.50 lac
15.	M.A.: Education	0.75 lac
16.	M.A.: Psychology	1.00 lac
17.	M.A.: Hindi, Urdu	0.50 lac
18.	M.A.: English	0.60 lac
19.	M.A.: Punjabi, Sanskrit, Dogri	0.15 lac
20.	M.A.: Buddhist Studies	0.20 lac
21.	M.A.: Kashmiri	0.50 lac
22.	M.A.: Political Science	0.60 lac
23.	M.A.: History	0.50 lac
24.	M.A: Music	0.50 lac
25.	M.Lib/ B.Lib:	0.30 lac
26.	M.Ed: Education	0.75 lac
27.	M.P.Ed: Physical Education	0.30 lac
28.	B.P.Ed: Physical Education	0.25 lac
29.	PGDBM: Management	0.25 lac
Sponsored Seats:		
1.	M.Sc: Biotechnology (NRI Sponsored)	2.00 lacs
2.	M.Sc: Environmental Sciences	1.50 lac per annum
Self Financing Programmes		
1.	M.Sc: Microbiology, Biochemistry	2.00 lacs
2.	M.Sc: Human Genetics	2.50 lacs
3.	M.Sc.: Remote Sensing & GIS	2.00 lacs

NOTE:

- 1) The above amount of fee is subject to change as may be notified from time to time by the University.
- 2) The payment made against Self Financing seats shall not be refundable.
- 3) The above mentioned fee excludes the Regular Annual fees & the same shall be charged when admission is granted.

(a) I.....Son/Daughter of
Resident of hereby solemnly declare that I have passed/appeared in the final year of my qualifying examination, in the year from the University ofI further declare that I have neither been admitted to any course/programme of study of this University/any other University nor have passed any post graduate examination as a private candidate, after passing my graduation examination in the previous year, except as provided in explanation (i) of Statute 15 of the Statutes governing admissions to the University of Jammu. The above statement made by me is true to the best of my knowledge and belief and in the event of this having been proved otherwise, my admission shall stand automatically cancelled besides any other action that may be taken against me under law for my civil or criminal liability.

(b) I further hereby solemnly declare that I was not involved in any criminal / antisocial activities prior to submission of this application form.

DEPONENT

*For candidates applying for admission after a lapse of time following graduation.

AFFIDAVIT

(For Candidates Seeking Admission under Reserved Category)

(A) I.....Son/Daughter of..... Resident of..... hereby solemnly declare that I am seeking admission to the course/programme of study namely..... in the Department of University of Jammu on the basis of Reserved Category. I further declare that Reserved Category Certificate submitted by me is genuine and in the event of this having been proved otherwise, my admission shall stand automatically cancelled, besides any other action may be taken against me under law for my civil or criminal liability.

(B) I further hereby solemnly declare that I was not involve in any criminal/ antisocial activities prior to the submission of application form.

DEPONENT

APPENDIX —VI

VI (a). FORM OF CERTIFICATE TO BE PRODUCED BY A CANDIDATE BELONGING TO SCHEDULED CASTE IN SUPPORT OF HIS/HER CLAIM

This is to certify that Mr./Ms./Mrs.....Son/Daughter ofof Village/Town.....District/Division..... of the State.....belongs to the Caste which is recognised as Scheduled Caste under the constitution (Jammu & Kashmir) Scheduled Caste Order, 1956.

SIGNATURE.....

DESIGNATION.....

(with seal of the Officer)

(Competent authority for issuing of Certificate is Revenue Officer not below the rank of Tehsildar)

Date.....

APPENDIX —VI

VI. (b) FORM OF CERTIFICATE TO BE PRODUCED BY A CANDIDATE BELONGING TO SCHEDULED TRIBES IN SUPPORT OF HIS/HER CLAIM

This is to certify that.....Son/Daughter of
..... of Village/Town.....District/Division..... of the
State.....belongs to the Tribes which is specified as a Scheduled Tribes under
the constitution (Jammu & Kashmir) Scheduled Tribes Order, 1989 as amended from time to time.

SIGNATURE.....

DESIGNATION.....

(with seal of the Officer)

(Competent authority for issuing of Certificate is
Revenue Officer not below the rank of Tehsildar)

Date.....

APPENDIX —VI

VI. (c). CERTIFICATE OF BEING A MEMBER OF THE SOCIALLY AND EDUCATIONALLY
BACKWARD CLASS

This is to certify that Mr./Ms./Mrs..... Son/Daughter of
..... of Village/Town.....District/Division..... of the

State.....belongs to the is a member of the Socially and Educationally Backward Class, falling under the category :

- i) Resident of Backward Areas;
- ii) Resident of area adjoining Line of Actual Control;
- iii) Weak and Under privileged class (Social Caste)

This is also certified that the said Mr./Ms./Mrs.....(on behalf of applicant) submitted his application for grant of this certificate to this Office on..... and the certificate has been delivered to him under my hand and seal today on the

SIGNATURE.....
DESIGNATION.....
Name in Block Letters.....
.....

Authorised Officer
(with seal)

*(Competent authority for issuing of Certificate is Revenue Officer not below the rank of Tehsildar)

* No certificate other than the competent authority shall be entertained/ considered.

APPENDIX —VI

VI. (d). CERTIFICATE TO BEING CHILD OF DEFENCE PERSONNEL

This is to certify that Mr./Ms./Mrs.....Son/Daughter of of Village/Town.....District/Division..... of the State.....serving or has served as member of Army/Navy/Air Force.

Authorised Officer
(with seal)

* (Competent authority for issuing of Certificate is authorised Officer of Zila Sainik Board/Commanding Officer of the Unit where serving or served)

* No certificate other than the competent authority shall be entertained/ considered.

APPENDIX —VI

VI (e). CERTIFICATE TO BEING AN EX-SERVICEMAN

This is to certify that Mr./Ms./Mrs.....
..... Son/Daughter of of
Village/Town.....District/Division..... of the State.....is an ex-serviceman of
the..... Force and has been honourably discharged from the service of the said Force
on.....

Signature of the Authorised Officer

(with seal)

*(Competent authority for issuing of Certificate is authorised Officer of Zila Sainik Board/Commanding Officer of the Unit where serving or served)

* No certificate other than the competent authority shall be entertained/ considered.

APPENDIX -VII

AFFIDAVIT
(For All Candidates)

I.....Son/Daughter of
.....Resident of..... have
solemnly declare that -

- a) I have passed/appeared in the final year of my last qualifying examination from.....
- b) I have gone through the contents of the Brochure-cum-Application Form, published by the University of Jammu and read the Statutes thoroughly. I shall abide by the instructions mentioned therein.
- c) I have personally filled in the Admission Form.
- d) I shall attend the Department concerned as per the schedule to be notified separately by the University of Jammu.
- e) If I fail to attend the Department concerned as per the notified date, I shall automatically lose the right of admission to the course / courses for which I have applied.
- f) I have not been debarred/disqualified by the University of Jammu or any other University.
- g) I have applied for admission in open category/reserved category/payment seat category (mention whichever are applicable)
 1. _____
 2. _____
 3. _____

I declare that the certificates submitted by me are genuine and the above statements made by me are true to the best of my knowledge and belief. In the event of this being proved otherwise, my admission shall stand automatically cancelled; besides, I shall be responsible for any other action that may be taken against me under law.

h) I shall not indulge in Ragging: In case of any violation, I shall be liable to any action under law, including cancellation of my admission.

WITNESSES :

DEPONENT

1.

2.

APPENDIX -VIII

LIST OF GAMES/SPORTS WHICH THE UNIVERSITY RECOGNISES/ PARTICIPATES IN AT VARIOUS LEVELS

S.No. Games (Men Section)	S.No. Games (Women Section)
1. Wrestling	1. Wrestling
2. Cross Country	2. Cross Country
3. Swimming	3. Swimming
4. Judo	4. Judo
5. Kho-Kho	5. Kho-Kho
6. Football	6. Football
7. Kabaddi	7. Kabaddi
8. Table Tennis	8. Table Tennis
9. Handball	9. Handball
10. Cricket	10. Cricket
11. Boxing	11. Boxing
12. Volleyball	12. Volleyball
13. Basketball	13. Basketball
14. Weight Lifting	14. Weight Lifting
15. Hockey	15. Hockey
16. Tennis	16. Tennis
17. Yoga	17. Yoga
18. Chess	18. Chess
19. Badminton	19. Badminton
20. Athletics	20. Athletics
21. Cycling	21. Cycling
22. Power Lifting & Weight Lifting	22. Power Lifting & Weight Lifting
23. Rowing	23. Rowing
24. Squash Rackets	24. Squash Racket

- 25. Ball Badminton
- 26. Soft Ball
- 27. Shooting
- 28. Canoeing & Kayaking
- 29. Archery
- 30. Koraf Ball
- 31. Yachting
- 32. Gymnastics
- 33. Fencing

(ARTISTIC)

- a) Floor Exercises
- b) Horizontal Bar
- c) Parallel Bar
- d) Roman Rings
- e) Vaulting Horse
- f) Pomelled Horse

- 25. Ball Badminton
- 26. Soft Ball
- 27. Shooting
- 28. Canoeing & Kayaking
- 29. Archery
- 30. Koraf Ball
- 31. Yachting
- 32. Gymnastics
- 33. Fencing

(ARTISTIC)

- a) Floor Exercises
- b) Uneven Bars
- c) Beam Balance
- d) Vaulting Horse

RHYTHMIC

- a) Ball
- b) Club
- c) Hoop
- d) Ribbon
- e) Rope

ANNEXURE - 1**REGULATIONS GOVERNING JAMMU UNIVERSITY ENTRANCE TEST (JUET)**

Admission to a programme of study in a teaching department of the University and Affiliated Colleges shall be made on the basis of written objective type Jammu University Entrance Test (**JUET**) by the Admission Committee of the Department concerned **with the approval of the Dean Academic Affairs**. The Admission Committee shall consist of members as given in Annexure I (A).

1. a) Applications for admission to various programmes of study (except M.Phil and Ph.D) in the teaching departments of the University shall be received within fourteen (14) days from the date of the issue of notification of admission by the University. Application forms prescribed by the University, **COMPLETE IN ALL RESPECTS**, must be submitted to the designated Office **ON OR BEFORE THE LAST DATE** prescribed by the University for the purpose as per the notification.

The Dean Academic Affairs may authorise late entertainment of an application form for admission to a programme of study upto a maximum of three (3) days after the last date prescribed by the University for receipt of application forms, on payment of requisite late fee. Such applications shall be treated at par with those received in time for purposes of admission.

NOTE : NO APPLICATION SHALL BE ENTERTAINED BY HAND OR BY POST OR BY COURIER AFTER THE LAST DATE

b) The Schedule and other details of admission for the programmes namely MBA, MBA (H&T), MBA (IB), M.Sc Biotechnology (except NRI/Industrial Sponsored Seats) shall be notified by each of the concerned Department separately after approval of the Dean Academic Affairs.

2. Admission to various Campuses of the University of Jammu:

The 50% of the total number of seats in any programme / subject in all Off-site Campuses shall be reserved for the candidates who are the pass-out of the respective District Colleges and, only, in the event of no such candidate being available for these seats, the same be filled up by students from other areas. In the case of Baderwah, this would mean that the students from Colleges belonging to the erstwhile district of Doda and for Poonch Campus, Colleges from both the districts of Poonch and Rajouri will be considered.

Candidates interested for seeking admission in the various Campuses of the University of Jammu are advised to obtain the admission form from respective Off-site Campus and submit the same at the designated counters prescribed by the University.

3. Submission of Application Form:

The Candidate should submit Application Form, duly filled in all respects, to the designated office of the University. Candidates need not enclose any document/certificate along-with the application form at the time of applying for Jammu University Entrance Test (JUET). Certificates/documents shall be submitted only at the time of applying to

the concerned Department of the University for which a separate notification shall be issued after the declaration of Jammu University Entrance Test result.

Candidates desirous to be considered under self financing seat, have to deposit a **Demand Draft of Rs. 500/-** favouring **Dean Academic Affairs, University of Jammu, Jammu** along with the admission form/s and deposit the same to the designated office of the University

NOTE: Candidates are advised to be very carefull while filling up the form/OMR sheet for Jammu University Entrance Test (JUET). Incomplete/incorrect forms are liable to be rejected.

4. Achievement Categories

Eligibility for admission under the categories of Sports, N.C.C., N.S.S./ Bharat Scouts and Guides and Cultural and Literary Activities shall be based on outstanding performance displayed during the 3 year tenure of B.A./B.Sc./B.Com./B.B.A./B.C.A (General Course, 10+2+3 pattern) or a Programme recognised as equivalent there of subject to the conditions laid down in the relevant statutes. Candidates need not enclose any certificate/document pertaining to achievement categories at the time of application for Jammu University Entrance Test (JUET). A separate notification shall be issued subsequently after the declaration of the result of JUET.

5. Certificates required

1. Certificates/documents are required to be submitted only at the time of applying to the concerned University Department/ Affiliated Colleges/ Campuses and, thus, candidates need not enclose any document along-with the application form at the time of applying for the Jammu University Entrance Test (JUET).
2. Mere issue of permission to appear in the Jammu University Entrance Test (JUET) will not imply that the candidate has been finally cleared for admission by the University.
3. The University will take up verification of eligibility condition with effect to original documents only after the candidate has qualified the Entrance Test and a separate notification shall be issued subsequently in this regard.
4. A candidate appearing in the final year of the qualifying examination immediately preceding the Academic Session and expecting to fulfill the Statutory requirement can also appear in written objective type Jammu University Entrance Test (JUET).

6. Display of Lists

After the declaration of the result of Jammu University Entrance Test (JUET), candidates shall apply to the concerned Department with all the relevant documents including Entrance Test Score Card. A separate notification shall be issued subsequently in this regard and list of students selected for admission shall be finalised and notified by the Admission Committee of the Department concerned by the date specified for the purpose.

All transfer cases from one programme of study to another, shall be allowed by the Admission Committee of the department concerned by the specified date. **Under no circumstances, the seats lying vacant in the departments on the last prescribed date for completion of admission will be filled up by the Head of the Department/Admission Committee unless the candidate falls immediately next in merit to the last admitted candidate. If some seats still remain vacant, these will be referred to the Appellate Committee for consideration.**

NOTE:

1. NO SEPARATE INTIMATION REGARDING SELECTION TO A PROGRAMME OF STUDY SHALL BE SENT TO THE APPLICANT. THE CANDIDATES ARE DIRECTED TO REMAIN IN TOUCH WITH THE DEPARTMENT CONCERNED AND WATCH THE NOTICE BOARD OF THE CONCERNED DEPARTMENT FOR DAY TO DAY INFORMATION.
2. FOR ADMISSION TO CAMPUSES/ AFFILIATED COLLEGES, CANDIDATE SHALL APPLY TO THE CONCERNED PG DEPARTMENT OF THE UNIVERSITY. THUS THE CONCERNED UNIVERSITY DEPARTMENT SHALL ACT AS NODAL DEPARTMENT FOR ADMISSION TO CAMPUSES/AFFILIATED COLLEGES.

7. Warning

(a) Mere appearance in Jammu University Entrance Test (JUET) doesn't ensure admission to a programme of study in the University. Each candidate shall ensure that he/she fulfils the Eligibility Criteria and that the particulars furnished in the Admission Form are complete and correct in all respects. In case, it is detected at any stage that a candidate does not fulfill the eligibility criteria and/or has **furnished incorrect information or suppressed any material information**, his/her candidature will be cancelled and if already admitted, shall be liable to forfeit the benefits accrued there from, besides rustication from the University.

(b) In case the applicant for admission is found to have indulged in ragging in the past or if it is noticed later that he/she has indulged in ragging, admission may be refused or he/she shall be expelled from the educational institution. However, if any incident of ragging comes to the notice of the authority, the concerned student shall be given opportunity to explain and if his/her explanation is not found satisfactory, the authority would expel him / her from the Institution.

8. Appeal

In case a candidate, who has deposited his Admission form in time (after the declaration of the result of JUET), has any grievance and feels that the Statutes governing admission have not been adhered to, he/she may make an appeal to the Head of the University Department concerned on the Form prescribed for the purpose and remit the requisite fee latest by the prescribed date, or any other date notified for the purpose. Such an appeal shall be considered by the Appellate Committee. **It shall be obligatory for the appellant to appear in person before the Appellate Committee, if called upon to do so.** The decision of the Appellate Committee shall be final and binding on such Applicant. Appeal form shall be available from the Assistant Registrar/ Deputy Registrar (Forms & Stationery) on payment of requisite fee.

9. First Preference

A Programme of study in the University where eligibility for admission is on the basis of having passed /appeared in final examination of B.A/ B.Sc/ B.Com/ B.B.A/ B.C.A etc of the University of Jammu or of any other Statutory University; would mean a Degree Programme of Three Years duration after 12 years of School Education under the 10+2+3 pattern, or a Degree programme of two years duration under 10+2+2 pattern and thereafter having passed the Bridge Course of one year duration comprising Part-III of B.A./B.Sc./B.Com. Three Year (General) Course of the University of Jammu.

10. Second Preference

Notwithstanding anything contained in instruction 9 above, a candidate who has passed M.A./M.Sc./M.Com etc examination from the University after having passed B.A./B.Sc./B.Com. examination under the old pattern of 10+2+2 or 10+1+3 shall also be eligible for admission under second preference category to :

(a) a programme where the minimum eligibility condition is pass/appeared in final examination of Three Year Degree (General) Course after 12 years of schooling.

(b) a Masters Degree Programme in an allied subject, if otherwise permissible under Statutes/Regulations of the University. However, admission of a candidate who has already pursued two Master Degree Programmes or a Ph.D/M.Phil Programme is/are not eligible to seek admission on whole time basis.

11. Reserved Category Affidavit

After the declaration of the result of JUET, a candidate seeking admission under a reserved category **must submit an affidavit as per specimen** given in Annexure-VI duly attested by a Magistrate/Oath Commissioner/Notary to the effect that the category certificate enclosed by him/her is genuine and in the event of this having been proved otherwise, his/her admission shall be cancelled besides any other action that may be taken against him/her under law for his/her Civil or Criminal Liability.

12. Special Affidavit *

After the declaration of the result of JUET, a candidate seeking admission after any period, from the year of his/her having passed B.A./B.Sc./B.Com/B.B.A./B.C.A.(Final) examination shall submit an affidavit duly attested by a Magistrate/Oath Commissioner/Notary as per specimen given in Annexure-V to the effect that he/she has not been admitted to or has not pursued any other programme of study during the intervening period.

NOTE: Admission in any of the University Department is no assurance for getting admission in the Hostel as the seats in the Hostels are limited.

* For candidates applying for admission after a lapse of one year or more following graduation.

ABOUT JAMMU UNIVERSITY ENTRANCE TEST (JUET).

ii) Admission to the PG Departments of the University of Jammu, Jammu/ Campuses/Affiliated Colleges shall be made on the basis of Entrance Test and Academic Merit of Qualifying Examination. The final merit of a candidate out of 100 shall be calculated by giving a weightage of 70 i.e. marks obtained in the Entrance Test and a weightage of 30 to the percentage of marks obtained in the qualifying examination- the 30 shall be calculated by giving the weightage of 10% each to the percentage of marks in Part I, II & III separately.

NOTE: For admission to the programmes like M.Ed/M.P.Ed/M.Lib.I.Sc etc the weightage of 30 to the percentage of marks obtained in the qualifying examination shall be accorded so as to calculate the academic merit of the candidate.

iii) There shall be 70 objective type questions carrying one (1) mark each for each subject/programme: 60 questions of the concerned subject/programme within the notified syllabus and 10 questions on Logic and Reasoning.

iv) Candidates can apply for appearing in the Entrance Test of a maximum of **5 Programmes**. The duration for each paper shall be **75 minutes** (ie. One hour and fifteen minutes). The examination shall be spread over 12 days. There shall be **4 subject specific tests on each day spread over two shifts**. The schedule shall be as follows:

- a. **Shift One** Paper I (10:00 to 11:15 hrs IST)
Paper II (12:00 to 13:15 hrs IST)

- b. **Shift Two** Paper III (14:00 to 15:15 hrs IST)
Paper IV (16:00 to 17:15 hrs IST)

- v) Every wrong answer shall be awarded **minus (-) 0.33 marks**. The candidate is required to obtain a minimum of 21 marks out of 70 questions for each subject/programme for general category candidates and 17 marks out of 70 for candidates belonging to SC/ST/ST (residents of Leh & Kargil) category.
- vi) If the number of candidates who qualify the Jammu University Entrance Test (JUET) is less than the number of seats in Open Merit or Reserved Categories, relaxation upto 4 marks in the Entrance Test may be allowed by the Hon'ble Vice-Chancellor on the recommendation of the Admission Committee of the concerned Department.

- vii) **Centres for Examinations:** There shall be following Centres for conduct of Jammu University Entrance Test (JUET):

i. Bhandarwah	v. Rajouri
ii. Jammu	vi. Reasi
iii. Kathua	vii. Srinagar
iv. Poonch	viii. Udhampur

- viii) **Fee for the Jammu University Entrance Test (JUET)** to be charged from each candidate shall be as follows:

	Gen. Category	SC/ST/ST (Leh & Kargil) Category
b) Opting for one programme	Rs. 450/-	Nil
c) Opting for two programmes	Rs. 550/-	Rs. 450/-
d) Opting for three programmes	Rs. 650/-	Rs. 550/-
e) Opting for four programmes	Rs. 800/-	Rs. 650/-
f) Opting for five programmes	Rs. 950/-	Rs. 800/-

(Demand Draft Addressed to Dean Academic Affairs, University of Jammu, payable at Jammu.)

- ix) Candidates are advised to fill up the OMR Entrance Test Form very carefully. Incomplete/wrong forms shall be rejected and no change can be incorporated after depositing the OMR Entrance Test Form.

- x) **The Entrance Test (JUET) shall be held for admission to following subjects:**

- b) **PG PROGRAMMES:** Biochemistry, Biotechnology (NRI/Industry Sponsored Seats), Botany, Buddhist Studies, Chemistry, Commerce, Computer Applications (MCA), Dogri, Economics, Education, Electronics, Environmental Sciences, English, Food Science & Technology, Geography, Geology, Hindi, History, Home Science (CRME), Home Science (Human Development), Human Genetics, Information Technology (M.Sc IT), Kashmiri, Library Science (M.Lib.I.Sc), M.Ed., M.P.Ed, Mathematics, Microbiology, Music, Physics, Political Science, Psychology, Punjabi, Remote Sensing & GIS, Sanskrit, Sociology, Statistics, Urdu, Zoology.
- c) **PG DIPLOMA PROGRAMMES:** PG Diploma in Business Management (PGDBM), PG Diploma in Human Rights & Duties Education, PG Diploma in Computer Applications (PGDCA).
- d) **UG PROGRAMMES:** Library Science (B.Lib.I.Sc), LL.B (3 Years-Professional), Bachelor in Physical Education (B.P.Ed), B.A. LL.B. 5 Year, BBA (Hotel Management).
- e) **Honours Programmes:** B.A English (Honours), B.Com (Honours).

NOTE:

1. The programme code for the above mentioned programmes is mentioned at Annexure XII
2. The eligibility criteria for BBA (HM), Honours Programmes & B.A. LL.B (5 Year) shall be 10+2 or equivalent.

- xi) Totally blind candidates must arrange amanuensis on their own & should attested copies of certificate issued in accordance with Statute 17 (A) (ii). Moreover attested copies of Marks Card/Certificate and Photo Identity of Amanuensis who should not be qualified more than 10+2, be also submitted to the Superintendent of the Entrance Test Centre.

- xii) **PUBLICATION OF ANSWER KEY:** The University shall publish the Answer Key pertaining to JUET- on the University website. Candidates having any doubt with respect to Answer Key/Questions in the JUET can communicate the same to the Office of the Dean Academic Affairs within two days after the publication of Answer Key.

- xiii) **DECLARATION OF RESULT:** The result of JUET shall be declared after the approval of the Result Publishing Committee. i.e. Core Committee of JUET. If the need arises, the Result Publishing Committee can moderate the result.

xiv) **ADMISSION UNDER SECOND PREFERENCE:** If the number of candidates qualifying the JUET- is less than the number of seats available in a particular programme even after relaxation of 4 marks as given in (v) above then the marks secured in an allied programme can be considered for admission in order of merit. However, such candidates shall be admitted under second preference.

Details of various programmes offered by the University of Jammu, Jammu/ Campuses/ Affiliated Colleges admission to which shall be made through JUET			
POST GRADUATE PROGRAMMES			
S.No.	SUBJECTS	INSTITUTION / COLLEGE	DURATION (In Years)
1.	Biochemistry (Self financing Course)	University of Jammu, Jammu	2 (4 Semesters)
2.	Biotechnology (NRI/ Self Sponsored Seats)	University of Jammu, Jammu	2 (4 Semesters)
3.	Botany	University of Jammu, Jammu	2 (4 Semesters)
4.	Buddhist Studies	University of Jammu, Jammu	2 (4 Semesters)
5.	Chemistry	University of Jammu, Jammu	2 (4 Semesters)
6.	Chemistry	Govt. Degree College, Rajouri	2 (4 Semesters)
7.	Chemistry	Govt. Degree College, Bhandarwan	2 (4 Semesters)
8.	Computer Sc. & IT (MCA)	University of Jammu, Jammu	3 (6 Semesters)
9.	Computer Sc. & IT (MCA)	Hamnagar Campus of Univ. of Jammu	3 (6 Semesters)
10.	Computer Sc. & IT (MCA)	Govt. Degree College, Rajouri	3 (6 Semesters)
11.	Computer Sc. & IT (MCA)	Bhandarwan Campus of Univ. of Jammu	3 (6 Semesters)
12.	Computer Sc. & IT (MCA)	Mahant Bachittar Singh College (MBS), Jammu *	3 (6 Semesters)
13.	Computer Sc. & IT (MCA)	Model Institute of Engineering & Technology (MIET), Jammu*	3 (6 Semesters)
14.	Computer Sc. & IT (MCA)	Institute of Management Sciences , Jammu*	3 (6 Semesters)
15.	Computer Sc. & IT (MCA)	Baldev Institute of Management Technology and Sciences (BIMTAS)*	3 (6 Semesters)
16.	Commerce	University of Jammu, Jammu	2 (4 Semesters)
17.	Commerce	Udhampur Campus of Univ. of Jammu	2 (4 Semesters)
18.	Commerce	Govt. SPMR College of Commerce, Jammu	2 (4 Semesters)
19.	Dogri	University of Jammu, Jammu	2 (4 Semesters)
20.	Economics	University of Jammu, Jammu	2 (4 Semesters)
21.	Economics	Udhampur Campus of Univ. of Jammu	2 (4 Semesters)
22.	Education	University of Jammu, Jammu	2 (4 Semesters)
23.	Electronics	University of Jammu, Jammu	2 (4 Semesters)
24.	Env. Sciences	University of Jammu, Jammu	2 (4 Semesters)
25.	English	University of Jammu, Jammu	2 (4 Semesters)
26.	English	Bhandarwan Campus of Univ. of Jammu	2 (4 Semesters)
27.	English	GGM Science College, Jammu	2 (4 Semesters)
28.	English	Govt. Degree College (Boys) Udhampur	2 (4 Semesters)
29.	English	Bhargava Degree College, Samba*	2 (4 Semesters)
30.	Food Science & Technology	Govt. Women College, Gandhi Nagar, Jammu	2 (4 Semesters)
31.	Geography	University of Jammu, Jammu	2 (4 Semesters)
32.	Geography	Govt. Degree College (Boys) Kathua	2 (4 Semesters)
33.	Geology	University of Jammu, Jammu	2 (4 Semesters)
34.	Geology	GGM Science College, Jammu	2 (4 Semesters)
35.	Hindi	University of Jammu, Jammu	2 (4 Semesters)
36.	Hindi	Govt. Degree College (Boys) Udhampur	2 (4 Semesters)
37.	History	University of Jammu, Jammu	2 (4 Semesters)
38.	Home Science (CRME)	Women College Parade, Jammu	2 (4 Semesters)
39.	Home Science (Human Development)	University of Jammu, Jammu	2 (4 Semesters)
40.	Human Genetics (Self financing Course)	University of Jammu, Jammu	2 (4 Semesters)
41.	Information Technology (M.Sc II)	Kishtwar Campus of Univ. of Jammu	2 (4 Semesters)
42.	Kashmiri	Kishtwar Campus of Univ. of Jammu	2 (4 Semesters)
43.	Library & Information Sciences (M.Lib.I.Sc)	University of Jammu, Jammu	1 (2 Semesters)
44.	M.Ed.	University of Jammu, Jammu	1 (2 Semesters)
45.	M.Ed.	Govt. College of Education, Jammu	1 (2 Semesters)
46.	M.Ed.	KCS College of Education(women), Jammu*	1 (2 Semesters)
47.	M.Ed.	Model Institute of Education & Research (MIER), Jammu*	1 (2 Semesters)
48.	M.P.Ed (Physical Education)	University of Jammu, Jammu	2 (4 Semesters)

49.	Mathematics	University of Jammu, Jammu	2 (4 Semesters)
50.	Mathematics	Govt. MAM College, Jammu	2 (4 Semesters)
51.	Microbiology (Self financing Course)	University of Jammu, Jammu	2 (4 Semesters)
52.	Music	Govt. Women College, Parade, Jammu	2 (4 Semesters)
53.	Music	Govt. Women College, Gandhi Nagar, Jammu	2 (4 Semesters)
54.	Physics	University of Jammu, Jammu	2 (4 Semesters)
55.	Political Sc.	University of Jammu, Jammu	2 (4 Semesters)
56.	Psychology	University of Jammu, Jammu	2 (4 Semesters)
57.	Punjabi	University of Jammu, Jammu	2 (4 Semesters)
58.	Remote Sensing & GIS (Self financing Course)	University of Jammu, Jammu	2 (4 Semesters)
59.	Sanskrit	University of Jammu, Jammu	2 (4 Semesters)
60.	Sociology	University of Jammu, Jammu	2 (4 Semesters)
61.	Sociology	Hamnagar Campus of Univ. of Jammu	2 (4 Semesters)
62.	Sociology	Reasi Campus of Univ. of Jammu	2 (4 Semesters)
63.	Statistics	University of Jammu, Jammu	2 (4 Semesters)
64.	Urdu	University of Jammu, Jammu	2 (4 Semesters)
65.	Urdu	Govt. Degree College , Bhaderwah	2 (4 Semesters)
66.	Zoology	University of Jammu, Jammu	2 (4 Semesters)

UNDER GRADUATE PROGRAMMES

S.No.	SUBJECTS	INSTITUTION / COLLEGE	DURATION (In Years)
1.	Lib Sci (B.Lib.)	University of Jammu, Jammu	1 (2 Semesters)
2.	LL.B (Professional)	University of Jammu, Jammu	3 (6 Semesters)
3.	LL.B (Professional)	Dogra Law College, Jammu*	3 (6 Semesters)
4.	LL.B (Professional)	KC Law College, Jammu*	3 (6 Semesters)
5.	LL.B (Professional)	Jammu Law College, Jammu*	3 (6 Semesters)
6.	B.A LL.B (5 Year)	The Law School, University of Jammu	5 (10 Semesters)
7.	B.A LL.B (5 Year)	Dogra Law College, Jammu*	5 (10 Semesters)
8.	B.A LL.B (5 Year)	KC Law College, Jammu*	5 (10 Semesters)
9.	B.A LL.B (5 Year)	CMH Law College, Jammu*	5 (10 Semesters)
10.	B.A LL.B (5 Year)	Jammu Law College, Jammu*	5 (10 Semesters)
11.	B.A LL.B (5 Year)	Ashoka Law College Kathua*	5 (10 Semesters)
12.	B.P.Ed	University of Jammu, Jammu	1 (2 Semesters)
13.	BBA (Hotel Management)	School of Hospitality & Tourism Management	3 (6 Semesters)
14.	B.Com (Honours)	Udhampur Campus of Univ. of Jammu	3 (6 Semesters)
15.	B.Com (Honours)	Govt. SPMR College of Commerce, Jammu	3 (6 Semesters)
16.	B.A English (Honours)	Kathua Campus of Univ. of Jammu	3 (6 Semesters)

P.G. DIPLOMA PROGRAMMES

S.No.	SUBJECTS	INSTITUTION / COLLEGE	DURATION (In Years)
1.	PGDBM	University of Jammu, Jammu	1 (2 Semesters)
2.	PGDBM	Baldev Institute of Management Technology and Sciences (BIMTAS)*	1 (2 Semesters)
3.	PGD Human Rights & Duties Education	University of Jammu, Jammu	1 (2 Semesters)
4.	PGDCA	National Institute of Electronics & Information Technology (NIEAIT) Formally DOEACC*	1 (2 Semesters)
5.	PGDCA	Model Institute of Education & Research (MIER), Jammu*	1 (2 Semesters)
6.	PGDCA	Kaira College of Education & Technology, Udhampur *	1 (2 Semesters)
7.	PGDCA	Dogra Degree College, Jammumu*	1 (2 Semesters)

* Admission in the Private Affiliated Colleges/Institutions is subject to affiliation by the University of Jammu, Jammu.

NOTE:

1. Only female candidates are eligible to apply for the programmes running at Women Colleges.
2. If the numbers of students for a Program of study are less than 5, no admission shall be made for the same.

ANNEXURE-II

SYLLABUS FOR JAMMU UNIVERSITY ENTRANCE TEST (JUET) -2012

S.No	SUBJECT	PAGE NO.
1.	Biochemistry (Self Financing Course)	2
2.	Biotechnology (NRI/Self Sponsored Seats)	3
3.	Botany	4-5
4.	Buddhist Studies	6
5.	B.P.Ed	7
6.	Chemistry	8-9
7.	Computer Science & IT (MCA)	10
8.	Commerce	11
9.	Dogri	12
10.	Economics	13
11.	Education	14-15
12.	Electronics	16
13.	Environmental Sciences	17-18
14.	English	19
15.	Food Sc. & Tech.	20-21
16.	Geography	22
17.	Geology	23
18.	Hindi	24-25
19.	History	26
20.	Home Science (CRME)/ (Human Dev.)	27-28
21.	Human Genetics (Self Financing Course)	29
22.	Information Technology (M.Sc IT)	30
23.	Kashmiri	31
24.	M.Ed.	32-33
25.	M.Lib.	34
26.	M.P.Ed	35
27.	Mathematics	36
28.	Microbiology (Self Financing Course)	37
29.	Music	38
30.	Physics	39
31.	Political Science	40
32.	Psychology	41
33.	Punjabi	42
34.	Remote Sensing & GIS (Self Financing Course)	43
35.	Sanskrit	44
36.	Sociology	45
37.	Statistics	46-47
38.	Urdu	48
39.	Zoology	49
40.	B.Lib Sciences	50
41.	LL.B (Professional) 3 years	51
42.	PGDBM	52
43.	PG Diploma in Human Rights & Duties Education	53
44.	Post Graduate Diploma in Computer Applications (PGDCA)	53
SAMPLE QUESTIONS		54-66

BIOCHEMISTRY

Water and its properties; physicochemical properties of water; Dissociation and association constants, pH, buffers, pI, pKa, solutions, solubility, criteria for solubility, hydrophobicity and hydrophilicity; Dielectric constant; Thermodynamics; free energy, enthalpy and entropy.

Carbohydrates, structure of mono-, di- and polysaccharides. Glycoproteins, peptidoglycans, lipopolysaccharides; Carbohydrate metabolism- glycolysis, TCA cycle, Electron transport chain, oxidative phosphorylation, pentose phosphate pathway, glyoxylate cycle.

Structure of amino acids, Chemical reactions; Structural organization of proteins, primary, secondary, tertiary and quaternary structure of proteins, Protein classification and functions; Biosynthesis and degradation of amino acids; Reduction and assimilation of atmospheric nitrogen.

Lipids and fats, classification of lipids and fatty acids, general structure and functions of major subclasses of lipids-acylglycerol, phosphoglycerides, sphingolipids, glycosphingolipids, terpenes, sterols and steroids; biosynthesis and degradation of fatty acids.

Nucleic acids, structure of nucleosides and nucleotides, biologically important nucleotides and their functions. Biosynthesis and degradation of nucleic acids. Vitamins and hormones; types of vitamins and their deficiency symptoms, steroid and peptide hormones.

DNA Structure: different forms of DNA: A, B, Z, Satellite DNA, DNA replication, Enzymology of DNA replication, Okazaki fragments, Rolling circle replication. Transcription: basal transcriptional apparatus and transcription factors, reverse transcription. Regulation of gene expression, Operon concept, Post transcriptional and Post translational regulations, Antisense RNA. Translation: structure, Protein synthesis.

Biophysical and biochemical techniques: Centrifugation-Principle, theory and applications, chromatography-principle, theory and applications of chromatography. Spectrophotometry, Electrophoreses-basic principle, theory and applications.

History of Enzymology, Enzyme vs chemical catalysts, Nomenclature and classification of enzymes, Enzyme activity, enzyme action, Enzyme substrate complex, Types of enzymes.

Tools in genetic engineering; Restriction enzymes: Polymerases, ligases, kinases, phosphatases, exonucleases, DNase, RNase and Proteinases; Cloning vectors; plasmids, cosmids, Genomic and cDNA libraries, Polymerase chain reaction, DNA sequencing, DNA fingerprinting, molecular markers; Introduction to Bioinformatics.

BIOTECHNOLOGY (NRI- INDUSTRY SPONSORED SEATS)

Plant tissue culture, culture media (White's and Murashige and Skoog's); Plant growth regulators (Auxins, Cytokinins and Gibberlins) and their use in plant tissue culture; Initiation and maintenance of callus and suspension cultures; Somatic embryogenesis, Shoot tip culture for production of virus free plants.

Gene transfer in plants using *Agrobacterium tumefaciens*, vectorless gene transfer; Major genes transferred through genetic engineering; application of Genetic engineering, production of transgenic plants with resistance against herbicides and insects; Golden Rice, Bt cotton.

History and scope of Microbiology, origin of microbes, pure cultures techniques, microbial culture media, sterilization, culture collection, purification and preservation. Principles and applications of microscopy (bright field, darkfield, phase contrast, fluorescence and immunofluorescence, confocal microscopy, electron microscopy).

Classification of bacteria; cultivation and reproduction in bacteria and viruses. Plant, animal and bacterial viruses, Retroviruses. Distribution, classification and reproduction of algae (Fristch) and fungi (Ainsworth). Morphology, motility and reproduction in protozoa.

Industrial products derived from microbes, industrial enzymes, production of antibiotics, vitamins and vaccines. Single cell proteins, biofertilizers, nitrogen fixation. Infectious disease transmission, respiratory diseases caused by bacteria and viruses, tuberculosis, sexually transmitted disease including AIDS.

DNA Structure: different forms of DNA: A, B, Z, Satellite DNA, DNA replication, Enzymology of DNA replication, Okazaki fragments, Rolling circle replication. Transcription: basal transcriptional apparatus and transcription factors, reverse transcription. Regulation of gene expression, Operon concept, Post transcriptional and Post translational regulations, Antisense RNA. Translation: structure, Protein synthesis.

Biophysical and biochemical techniques: Centrifugation-Principle, theory and applications, chromatography-principle, theory and applications of chromatography. Spectrophotometry, Electrophoreses-basic principle, theory and applications.

History of Enzymology, Enzyme vs chemical catalysts, Nomenclature and classification of enzymes, Enzyme activity, enzyme action, Enzyme substrate complex, Types of enzymes.

Tools in genetic engineering; Restriction enzymes: Polymerases, ligases, kinases, phosphatases, exonucleases, DNase, RNase and Proteinases; Cloning vectors; plasmids, cosmids, Genomic and cDNA libraries, Polymerase chain reaction, DNA sequencing, DNA fingerprinting, molecular markers; Introduction to Bioinformatics.

Water and its properties; physicochemical properties of water; Dissociation and association constants, pH, buffers, pI, pKa, solutions, solubility, criteria for solubility, hydrophobicity and hydrophilicity; Dielectric constant; Thermodynamics; free energy, enthalpy and entropy.

Carbohydrates, structure of mono-, di- and polysaccharides. Glycoproteins, peptidoglycans, lipopolysaccharides; Carbohydrate metabolism- glycolysis, TCA cycle, Electron transport chain, oxidative phosphorylation, pentose phosphate pathway, glyoxylate cycle.

Structure of amino acids, Chemical reactions; Structural organization of proteins, primary, secondary, tertiary and quaternary structure of proteins, Protein classification and functions; Biosynthesis and degradation of amino acids; Reduction and assimilation of atmospheric nitrogen.

Lipids and fats, classification of lipids and fatty acids, general structure and functions of major subclasses of lipids-acylglycerol, phosphoglycerides, sphingolipids, glycosphingolipids, terpenes, sterols and steroids; biosynthesis and degradation of fatty acids.

Nucleic acids, structure of nucleosides and nucleotides, biologically important nucleotides and their functions. Biosynthesis and degradation of nucleic acids. Vitamins and hormones; types of vitamins and their deficiency symptoms, steroid and peptide hormones.

BOTANY

General account of viruses, mycoplasma and cyanobacteria; Structure, nutrition, reproduction and economic importance of bacteria; General characteristics, economic importance and classification of algae (Fritsch 1935, 1945), fungi (Ainsworth, 1971), bryophytes (Smith, 1955) and pteridophytes (Sporne, 1975); Important features of chlorophyceae, xanthophyceae, phaeophyceae and rhodophyceae; Important features of masotigomycotina, zygomycotina and ascomycotina with emphasis on their life histories; Structure and reproduction in hepaticae, anthocerotales and musci; Important characteristics, structure and reproduction of psilopsida, lycopsida, sphenopsida and pteropsida.

Ultrastructure and functions of primary cell wall, plasma membrane, E.R, golgi bodies, chloroplasts, mitochondria, ribosomes, nucleolus and nuclear membrane; Physical and chemical structure of chromosomes, centromere, telomere and sex chromosomes. Mitosis and meiosis; Structure and replication of nuclear DNA, Organization of DNA in pro- and eukaryotic genomes; nucleosome model; Genetic code, transcription; regulation of gene expression in prokaryotes and eukaryotes, Protein synthesis, (1D, 2-D and 3-D) structure and function of proteins. Types, effects and detection of intra- and inter-chromosomal alterations (deletions, duplications, inversions and translocations). Types, origin and effect of euploidy and aneuploidy; Spontaneous and induced mutations in pro-and eukaryotes, methods and uses; Transposons-structure and mechanism of transportation; Mendel's laws of segregation and independent assortment; allelic and non-allelic interactions; Linkage and recombination.

Fossil Gymnosperms– a general account with emphasis on Bennettiales; morphology, anatomy and reproduction in *Williaisonia* and *Cycadeoidea*; Fossil angiosperms–a general account; Gymnosperms – general characters and diversity; morphology, anatomy, reproduction and life cycle of *Pinus* and *Ephedra*; Angiosperms–origin and evolution; characteristic features of some primitive angiosperms with special reference to *Magnolia*; Classical and modern history of angiosperm taxonomy;

Taxonomic identification: Keys, floras, monographs, reviews; Botanical nomenclature–principles and rules, taxonomic ranks, type concept and principle of priority. Classification of angiosperms; role of anatomy, embryology and cytology in taxonomy; Morphological diversity of families: Ranunculaceae, Brassicaceae, Astraceae, Fabaceae, Solanaceae, Euphorbiaceae, Liliaceae, Amaryllidaceae and Poaceae; Basic architecture and branching pattern in seed plants.

Structural modifications of roots and shoots – a general account; Factors responsible for dwindling plant diversity & strategies adopted for its conservation; Apical meristems of root and shoot-structure, organization and role. Vascularization of primary root in mono & dicots; Epidermal modifications in mono- & dicots (stomata & trichomes) Vascular cambium and its derivatives, their role in translocation of water, minerals & food. Secondary growth – a general account, growth rings, heartwood, sapwood; periderm. Leaf- origin, development and vascularisation, senescence and abscission; Flower-structure, development & functions, micro- and megasporogeneses, micro- and megagametogeneses. Pollination types, attractants and rewards for pollinators, Pollen-pistil interaction, self incompatibility, Double fertilization, embryo & endosperm development, Formation of fruit and seed, Seed dormancy, types and importance; seed dispersal and seed germination, Propagation by vegetative means & importance; Morphological, anatomical and physiological responses of plants to water (hydro- and xerophytes), light (photoperiodism, helio- and sciophytes) and temperature (thermoperiodicity and vernalization).

Enzymes- discovery, nomenclature and characteristics, concept of holoenzymes, apoenzyme, co-enzyme and co-factors; Water-physical properties and importance to plant life, diffusion, osmosis, transport of water through xylem, transpiration; mechanism of opening and closing of stomata; Macro- and micro elements, Importance of mineral nutrients to the plant and their role, deficiency and toxicity symptoms. Photosynthesis– Importance, pigments, action spectra, enhancement effect, photosynthesis I & II, Z-scheme, calvin, C4 and CAM pathway and photorespiration; Respiration – aerobic and anaerobic, kreb's cycle; Recombinant DNA Technology- tools, techniques and uses; gene cloning, restriction endonucleases, gel electrophoresis, Southern blotting, vectors; Basic concept of Plant Tissue Culture, cellular totipotency, differentiation and morphogenesis.

Soil structure, profile, development and composition; Global warming and Climate change; Structure and composition of ecosystems; food chain, food web, ecological pyramids and energy flow; Community and population ecology: Characteristics, growth curves and Succession. Utilization of food (Wheat, maize, potato), fibres (Cotton and Jute), beverages (tea and coffee), spices (Asafoetida, Cumin, fennel, cloves, cinnamon, cardamom, coriander), Vegetable oils (groundnut, mustard and coconut) yielding plants. Medicinal plants of J&K - general account.

BUDDHIST STUDIES

1. Life of the Gautama Buddha Birth, Renunciation, Enlightenment and Mahaparinirvana
 2. Buddhist Councils
 - a. First Buddhist Council
 - b. Second Buddhist Council
 - c. Third Buddhist Council
 - d. Fourth Buddhist Council
 3. Four Noble Truths
 4. Eightfold Noble Paths
 5. Three characteristics of Phenomena
Sufferings
No Soul
 6. Royal Patronage of Buddhism
Ashoka
Munander
 7. Kanishka
 8. Seats of Buddhist Learning
Nalanda Mahavihara
Vikramshila Mahavihara
Valabhi Mahavihara
 9. Buddhist Stupas, Monasteries and Caves
Sanchi Stupa
Dhamekh Stupa
Hemis Monastery
Alchi Monastery
Ajanta Caves
Ellora Caves
 10. Countries of Buddhist Faith
Countries of Hinayani Faith
Countries of Mahayan Faith
 11. Prominent Chinese Travelers.
Fa-hein
Hieun-tsang
I-tsing
-

B.P.Ed (PHYSICAL EDUCATION)

1. History of Sports
 2. Sports Aptitude
 3. General Knowledge of Different Games/ Sports
-

CHEMISTRY

Physical Chemistry

Colloidal State: Classification of colloids. Solids in liquids (sols): properties kinetic, optical and electrical stability of colloids, Protective action, Hardy-Schulze law, Gold number. **Solid State:** Space lattice, unit cell, Laws of crystallography- (i) Law of constancy of interfacial angles (ii) Law of rationality of indices (iii) Law of symmetry. Symmetry elements in crystals. **Gaseous State:** Postulates of kinetic theory of gases, Deviation from ideal behavior, van der Waals equation of state, Molecular Velocities: Root mean square, average and most probable velocities, Qualitative discussion of the Maxwell's distribution of molecular velocities, collision number, mean free path and collision diameter. **Liquid State:** Structural differences between solid, liquid and gas, Difference between liquid crystal, solid and liquid. **Chemical Kinetics and Catalysis:** Rate of a reaction, factors influencing the rate of a reaction-concentration, temperature, pressure, solvent, light, catalyst. Concentration dependence of rates, Mathematical characteristics of simple chemical reactions-zero order, first order, second order, pseudo order, half life and mean life. Determination of the order of reaction-differential method, method of integration, method of half life period, Effect of temperature on rate of reaction, Arrhenius equation, concept of activation energy. Simply collision theory, transition state theory (equilibrium hypothesis). Expression for the rate constant based on equilibrium constant and thermodynamic aspects. **Thermodynamics:** First law of thermodynamics, Internal energy and enthalpy, Heat capacity, heat capacities at constant volume, pressure and their relationship, Joule's law. Joule-Thomson coefficient and inversion temperature. Calculation of w , q , dU & dH for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process. Second law of thermodynamics: Carnot cycle and its efficiency, Carnot theorem, Thermodynamic scale of temperature. Concept of entropy: entropy as a state function, entropy as a function of V & T , entropy as a function of P & T , entropy as criteria of spontaneity and equilibrium. Entropy change in ideal gases and mixing of gases. **Chemical Equilibrium:** Equilibrium constant and free energy, thermodynamic derivation of law of mass action. Le Chatelier's principle. **Phase Equilibrium:** Statement and meaning of the term-phase, component and degree of freedom, derivation of Gibbs phase rule, phase equilibrium of one component system-water. **Electrochemistry:** Electrical transport-conduction in metals and in electrolyte solution, specific conductance and equivalent conductance, measurement of equivalent conductance, variation of equivalent and specific conductance with dilution, Migration of ions and Kohlrausch law, Arrhenius theory of electrolytes, dissociation and its limitations, weak and strong electrolytes, Ostwald's dilution law its uses and limitation, Debye-Huckel-Onsager's equation for strong electrolytes – elementary treatment only. Transport number, definition and determination by Hittorf method and moving boundary method. Applications of conductivity measurements: determination of (i) degree of dissociation (ii) K_a of acids (iii) solubility product of sparingly soluble salt, Conductometric titrations, concentration cell with and without transport, liquid junction potential, potentiometric titrations. Definition of pH and pK_a , Determination of pH using hydrogen, quinhydrone and glass electrodes by potentiometric methods. Buffers-mechanism of buffer action. **Elementary Quantum Mechanics:** Black-body radiation, Planck's radiation law, photoelectric effect, heat capacity of solids, Bohr's model of hydrogen atom (no derivation) and its defects, de Broglie hypothesis, Heisenberg's uncertainty principle, Hamiltonian operator, Schrodinger wave equation, physical interpretation of the wave function, postulates of quantum mechanics. Solution of the Schrodinger equation for particle in a box. **Solution, dilute solutions and colligative properties:** Ideal and non-ideal solutions, methods of expressing concentrations of solutions, activity and activity coefficient. Dilute solution, colligative properties, Raoult's law, relative lowering of vapour pressure, molecular weight determination. Osmosis, law of osmotic pressure and its measurement, determination of molecular weight from osmotic pressure. Elevation of boiling point and depression of freezing point. Abnormal molar mass, degree of dissociation and association of solutes.

Inorganic Chemistry

Chemical bonding: VSEPR theory, valence bond theory and hybridization models, MO theory, multicenter bonding, percentage ionic character from dipole moment and electronegativity difference. Ionic structures, radius ratio rule, lattice defects, semiconductors, lattice energy and Born-Haber cycle, solvation energy and solubility of ionic solids, Fajan's rule, metallic bond, weak interactions. **Chemistry of elements of transition series:** General characteristics,

comparative study of 3d, 4d and 5d transition elements in respect of ionic radii, oxidation states, magnetic behavior, spectral properties and stereochemistry. Werner's theory, nomenclature and isomerism in coordination compounds, crystal-field theory. **Hard and soft acids and bases (HSAB):** Classification of acids and bases hard and soft. Pearson's HSAB concept. Symbiosis, theoretical basis of hardness and softness, electronegativity and hardness and softness. **Thermodynamic and kinetic aspects of metal complexes:** Thermodynamic stability of metal complexes and factors affecting the stability, substitution reactions of square planer complexes. **Magnetic properties of transition metal complexes:** Types of magnetic behavior, methods of determining magnetic susceptibility, L-S coupling, application of magnetic moment data for metal complexes. **Organometallic Chemistry:** Definition, nomenclature and classification of organometallic compounds. Preparation, properties, bonding of metal-alkyls, metal-alkene complexes, homogeneous hydrogenation, metal carbonyls. **Bioinorganic Chemistry:** Essential and trace elements in biological processes, metalloporphyrins with special reference to haemoglobin and myoglobin. Biological role of alkaline earth metal ions. Nitrogen fixation.

Organic Chemistry

Structure and Bonding: Charge transfer complexes, resonance, hyperconjugation, aromaticity, inductive and field effects, hydrogen bonding. **Reactive intermediates:** Carbocations, carbanions, free radicals, carbenes (with examples). **Optical isomerism:** Elements of symmetry, Enantiomers, diastereomers, relative and absolute configuration. **Geometrical isomerism:** E & Z system of nomenclature. **Alkenes:** The Saytzeff rules, Hofmann elimination, relative stabilities, electrophilic and free-radical addition, Markownikoff's rule, hydroborations-oxidation. **Alkanes:** Isomerism in alkanes, methods of formation Wurtz reaction, Kolbe reaction, Corey House reaction and decarboxylation of carboxylic acids). **Aromatic electrophilic substitution:** general pattern of the mechanism, role of σ and π -complexes. Mechanism of nitration, halogenation, sulphonation, Friedel-Crafts reaction. Activating and deactivating substituents, orientation and ortho/para ratio. **Nucleophilic substitution:** S_N2 and S_N1 reactions. **Spectroscopy:** IR, Intensity and position of IR bands, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds. 1H -NMR: nuclear shielding and deshielding, chemical shift and molecular structure, spin-spin splitting and coupling constants, PMR spectra of ethyl bromide, ethanol, acetaldehyde, 1,1,2-tribromoethane, ethyl acetate, toluene and acetophenone. **Monohydric alcohols:** formation by reduction of aldehydes, ketones, carboxylic acids and esters. **Dihydric alcohols:** oxidative cleavage [$Pb(OAc)_4$ and HIO_4] and Pinacol-Pinacolone rearrangement. **Phenols:** Reimer Tiemann reaction, Fries rearrangement. **Carbonyl compounds:** Nucleophilic addition to carbonyl group, Benzoin, Aldol, Perkin and Knoevenagel condensations. Baeyer-Villiger oxidation, Cannizzaro reaction, Wolff-Kishner, $LiAlH_4$ reduction. Relative stability of acyl derivatives. Interconversion of acid derivatives. Preparation of carboxylic acid derivatives, Chemical reactions. **Carbonyl enolates:** Alkylation of diethyl malonate and ethyl acetoacetate. Claisen condensation. Keto-enol tautomerism. **Grignard reagents:** formation, structure and chemical reactions. **Amino acids:** classification, structure and stereochemistry, acid base behavior, isoelectric point and electrophoresis. **Heterocyclic Compounds:** synthesis, aromatic characteristics of pyrrole, furan, thiophene and pyridine and their electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine. Comparison of basicity of pyridine, piperidine and pyrrole. **Carbohydrates:** Monosaccharides, Mechanism of osazone formation, interconversion of glucose and fructose, chain lengthening and chain shortening of aldoses. **Synthetic Polymers:** addition or chain-growth polymerization, Ziegler-Natta polymerization and vinyl polymers. Condensation or step growth polymerization.

COMPUTER SCIENCE AND IT (MCA)

1	(A) Series-Numeric and Alphabetic (B) Logical Reasoning	35%
2	English- Synonyms, Antonyms, Identification of Grammatical Errors etc	15%
3	Arithmetic including Percentage, Interest, Profit and Loss, Time and Work, Height and Distance, Stock and Shares, Ratio and proportion, Average, Fraction etc. and Mathematics Covering Trigonometry, Geometry, Algebra, Calculus etc.	50%

COMMERCE

Accounting

Accounting ratios: Liquidity, efficiency, profitability & solvency; Components and preparation of cash flow statement; Break even analysis; Profit-volume ratio; Methods of inventory valuation; Cost classification; Overheads classification; Normal Vs abnormal loss; Labour rate methods; Process costing; Joint product & by product process costing.

Taxation

Direct and indirect tax systems: Canons of taxation; Merits and demerits of direct & indirect taxes; Exempted incomes; Salary income and tax liability; Various types of allowances & perquisites: Concept of VAT

Auditing

Rights, duties, powers and liabilities of company's auditor; Qualification & qualities of company auditor; Vouching: Meaning & types; Auditors report : Qualified and unqualified; Investigation: Meaning and need; Audit Vs Investigation.

Business Laws

Bailment and pledge; Contract of agency; Negotiable instruments; Memorandum of association and Articles of associations; Formation & winding up of companies; Various types of shares & debentures

Money and Financial System

Types of financial markets: Money and capital markets; On line banking; Various types of investors.

Economics and Statistics

Micro Vs Macro economics; Cardinal Vs Ordinal approach; Introduction to various markets based upon competition: Monopoly & monopolistic; Dispersion: Range, mean deviation & standard deviation; Correlation & regression analysis; Types & methods of constructing index numbers.

Management

Taylor's Scientific management; Henry Fayol's managerial philosophy; System Vs contingency approach; Functions of management; Concept of delegation; Accountability and responsibility.

DOGRI

- Sheeraza Dogri Ghazal Ank No. 147 (Prescribed Poets: Prof. Ram Nath Shashtri, Dr. Jitendra Udhamपुरi, Darshan Dharshi, Mohan Singh, Virender Kesar, Prof. Champa Sharma, Ashwini Magotra, Padam Dev Nirdosh, Vijay Verma), Sheeraza Dogri No. 168 (Talmian Dogri Kavitan Part-I& II), Sheeraza Dogri No.154 (Chonamen Dogri Nibandh Vishesh Ank, Part-I & II) and Sarha Sahitya-1997 Ekanki Ank published by J&K Academy of Art, Culture and Languages, Jammu.
 - Bawa Jitto by Prof. R.N. Shastri, Trutti Di Dor by Sh. Ved Rahi, Dogri Sahitya Charcha by Prof. Laxmi Narayan and Katha Kunj Bhag-II published by Dogri Sanstha, Jammu
 - History of Dogri Poetry, Short Story and Drama upto 1980 (Book prescribed: Dogri Sahitya Da Itihas by Shiv Nath) and History of Dogri Novel (Book prescribed: Dogri Sahitya Da Itihas by Shiv Nath), published by Sahitya Akademi, New Delhi.
 - Matterean by Inderjeet Kesar published by Jai Mata Parkashan, 2-P, Sector-3, Chhanni Himmat, Jammu.
-

ECONOMICS

Micro Economics

- Theory of demand
- Theory of production
- Market structure
- Factor pricing
- Welfare economics

Indian Economy

- Indian Economy at the time of Independence
- Structure of the Indian economy and planning
- Agriculture in India
- Industrial development in India

Macro Economics

- National Income and Social Accounts.
- Output and employment
- Financial markets and rate of interest
- Trade cycles
- Macro economic policy and inflation

Money, Banking and Public Finance

- Money and theories of money
- Commercial banking and central banking
- Nature and scope of public finance
- Taxation
- Public debt and financial administration

International Economics

- Importance of trade and trade theories
- Gains from trade
- Tariffs and quotes
- Balance of payments and International Institutions
- Foreign trade in India

Development and Environmental Economics

- Development and economic Growth
 - Economic development, population and Institution
 - Sectoral view of development
 - International aspects of economic development
 - Environment and ecology
-

EDUCATION

Psychology and Education : Meaning of : i) Education ii) Psychology iii) Educational Psychology, Relationship between Education and Psychology. Difference between Psychology and Educational Psychology.

Theories of Learning – Thorndike’s Trial and Error Theory – Concept, Experiment, Laws of Learning based on the theory. Educational implications of the theory.

Gestalt Theory of Learning by Wolfgang Kohler, Concept, Experiment, Educational Implications.

Intelligence : Meaning and Definition of Intelligence.

Two Factor Theory by Charles Spearman, Description of the Theory, Characteristics, ‘g’ factor and ‘s’ factor, Educational Implications of the Theory.

Primary Mental Abilities Theory by LL Thurstone: Description of the Theory, Educational Implications of the Theory.

Intelligence Tests: Concept of Intelligence Tests, Uses of Intelligence Tests.

Concepts of I.Q (Intelligence Quotient) MA (Mental Age) and CA (Chronological Age) Classification of I.Q. given by L.M. Terman.

Memory and Forgetting : Meaning and Definitions of Memory and Forgetting

Components of Memory : Learning, Retention, Recall and Recognition.

Types of Memory, Signs of good Memory, Methods of memorizing, Factors responsible for causing Forgetting.

Measure of Central Tendency : Concepts of Mean, Median and Mode, Computation of Mean, Median and Mode of grouped and ungrouped data. Uses of Various Measures of Central Tendency in Educational situations.

Education : Concept, Aims and Agencies.

Concept of Education: Functions of Education : Preservation, Transmission and Enrichment.

Aims of Education

Concept of Aims, Individual Aim, Social Aim, Individual Vs Social Aim.

Agencies of Education

Concept of Agencies of Education, Family, Home and School as major agencies imparting education in a society.

Curriculum and its Development

Curriculum : Meaning and Definitions.

Types of Curricula- Subject Centred, Learner Centred.

Basic Principles of Curriculum Construction.

Curricular and Co-curricular Activities:

Concepts and Types of Co-Curricular Activities, Importance of Organizing Co-curricular Activities in Educational institutions.

Education and Social Change: Meaning and Definitions of Social Change, Factors responsible for bringing about social change, Role of Education.

Education and National Integration – Concept of National and Emotional Integration,

Barriers in way of achieving National Integration, Role of Education in Promoting National Integration.

Methods of Studying Human Behaviour

Introspection- Meaning and definitions, process involved in introspection, merits and limitations of the method.

Observation –Meaning and Definitions, Types: Controlled and Uncontrolled, steps involved during observation, merits and limitations.

Experimental – Meaning and definitions, characteristics, steps involved in experimental method, merits and limitations.

Gifted and Creative Children

Meaning and definitions, difference between gifted and creative children.

Characteristics of gifted children, identification of gifted children, educational provisions for the gifted children.

Mentally Retarded children

Concept of mental retardation, causes of mental retardation, educational provisions for mentally retarded children

Motivation and Adjustment

Concept : Types of motivation (intrinsic and extrinsic) Bases of motivation –needs (physiological and psychological) and drives.

Personality

Concept, Development of Personality, Types of Personality, Assessment of Personality: Subjective Techniques (Anecdotes, Autobiography, Case Study, Projective Techniques

Elementary Education : Concept , objectives of elementary education. Concept of Universalization of Elementary Education (UEE), Promotion of UEE through SarvShiksha Abhiyan (SSA)

Secondary Education : Concept, Objectives of secondary education, Organizational Pattern as suggested by Kothari Commission of Education (1964-66) and National Policy on Education 1986, Main problems of secondary education and remedial measures to solve these problems.

Higher Education : Concept, objectives of higher education as per National Policy on Education. Problems being faced in higher education with emphasis on problem of Selective Admission, Autonomy & Examination and their remedial measures.

Women Education: Concept of women education, Need for prioritizing women education, Problems of women education and suggestive remedial measures.

Adult Education: Concept of Adult Education, Functions of adult education. National Adult Education Programme (NAEP)-Meaning and its features, National Literacy Mission (NLM), objective and importance.

Educational Technology : Concept of Educational Technology , Various approaches to implement educational technology towards Quality Education, Role of ICT in Education.

Teacher Education: Concept of teacher education, objectives of teacher education in India. Problems of teacher education, Role of NCTE in improving the Quality of teacher education in India.

Idealism : Concept, Salient Features of Idealisms with reference to Aims, Curriculum, Instructional Techniques, Discipline and Role of Teacher.

Pragmatism : Concept, Salient Features of Pragmatism with reference to Aims, Curriculum, Instructional Techniques, Discipline and Role of Teacher.

Naturalism : Concept, Salient Features of Naturalism with reference to Aims, Curriculum, Instructional Techniques, Discipline and Role of Teacher.

Concept of Indian Society : Social Justice and Equality, Human Rights, Consumer Rights, Gender Equality, Environmental Degradation, Globalization and Privatization- Role of Education.

Community and Education : Meaning of Community , Role of Education for upliftment of Community, Mass Media as a Social Means of Education.

Education and Culture- Concept of Culture, Features of Indian Culture, Relation between Education and Culture.

Inclusive Education : Meaning, Scope and Role of Inclusive Education.

Vedic Education : Meaning of Vedas, Aims of Education, Curriculum and Organization, Yoga- Meaning and Importance of Yoga Philosophy.

Buddhist Education : Aims of Education, Curriculum, Women Education, Qualities and Duties of Teachers.

Islamic Education : Salient Features, Aims, Process of Education and curriculum with Reference to Maktabas and Madrasas, Islamic Centres of Higher Education at Delhi, Agra, Jaunpur and Bihar.

Sargent Report (1944), Radha Krishnan Commission –(1948), Mudaliar Commission-(1952-53), Kothari Commission-(1964-66), National Policy of Education (NPE) 1986 and 1992, CABE- Meaning, Composition and functions. NCERT- Meaning, Composition and Functions.

ELECTRONICS

Network analysis: Kirchoff's laws, Source transformation, Mesh and Nodal analysis, Star delta transformation, Thevenin's, Norton's and Maximum power transfer theorem; Transient analysis of RC, RL, RLC circuit using differential equations and Laplace transform, Series and Parallel resonance; Filters: Fundamentals, constant k & m derived filters; PN-junction diode equation and equivalent circuit, Rectifiers, Zener diode, LED, Solar cell, Tunnel and Varactor diode; Bipolar junction transistor (configurations, biasing and small signal analysis using h parameters); UJT, FET and MOSFET (construction, working, and characteristics); Oscillators (Barkhausen criteria, Phase shift, Wein bridge and Crystal oscillators); Effects of voltage series feedback.

Basic PMMC movement and its use for voltage & current measurement, AC voltmeter, Electronic multimeter, Digital voltmeters, Q meter); CRO (block diagram, working, and applications); Transducers (photoelectric, piezoelectric, potentiometric, strain gauges, thermocouples, thermistors); Op-amp: ac and dc characteristics, closed loop configurations and applications (integrator, differentiator, voltage to current converter, current to voltage converter, summer, subtractor, and comparators) ; 555 timer; Logic gates and their families(TTL and CMOS); Boolean algebra, K-maps upto 4 variables, half and full adders; subtractors; parity checkers; magnitude comparators; decoders; and encoders; sequential circuits (flip-flops, registers, and counters); memories (ROM: PROM, EPROM, and EEPROM; RAM); A/D and D/A converters.

Propagation of waves (free space, tropospheric, and ionospheric propagation); surface waves; antennas (equivalent circuits, radiation fields, polarization, ionospheric radiation, power gain of Hertzian dipole, grounded, and ungrounded antennas); analog modulation and demodulation (amplitude and frequency); digital modulation (pulse amplitude, pulse width, pulse position, pulse code modulation); fibre optic communications (introduction, principles, and advantages); satellite communication (introduction, orbits, station keeping, satellite altitude, transmission path, path loss, and noise considerations); principle of TV communication (TV systems and standards, scanning and blanking pulses, composite video signal). 8085 microprocessor architecture (address bus, data bus, control bus, and registers, internal data operations, externally initiated operations, de-multiplexing AD7-AD0, generating control signals, op-code fetch, memory read, and memory write); 8085 programming (instruction classification, instruction formats, addressing modes, data transfer instructions, arithmetic operations, logic operations, branch operations, looping, 16-bit arithmetic instructions, logic operations, counters and time delays); interfacing devices (8255, 8253 and 8279); C programming: data types, operators, data input and output statements, functions, arrays, pointers, structures and unions.

ENVIRONMENTAL SCIENCES

UNIT-I : THE LIVING WORLD

Nature and scope of Biology : its relation with other sciences, techniques and instruments, why to study Biology, scientific method. Being alive : What does it mean ? Present approach to understand life process; molecular approach; life as an expression of energy; steady state and homeostasis; self duplication and survival; adaptation; death as a positive part of life; an attempt to define life in the light of the above. Origin of life, evolution and its maintenance; the positive and negative aspects of progress in biological sciences. The future of living world, identification of human responsibility in shaping our future.

UNIT-II : DIVERSITY OF LIFE

Introduction. The enormous variety of living things, the need for classification to cope with this variety : taxonomy and phylogeny; the meanings of a five kingdom classification- monera, protista, plantae, fungi and animalia. The basic features of five kingdom classification; concept of species, taxon and categories - hierarchical levels of classification; binomial nomenclature, principles of classification and nomenclature; Salient features/importance and lifestyle of kingdom **monera** (archaeobacteria, actinomycetes, cyanobacteria); **protista** (photosynthetic protista, slimemould and protozoan protista); **fungi**(zygomycetes; ascomycetes, basidiomycetes; Lichens & mycorrhizae); **plantae** (algae, bryophytes, pteridophytes, gymnosperms, angiosperms); **animalia** (porifera, coelenterata, helminths, annelids, mollusca, arthropoda, echinoderms; chordate)

UNIT - III : NATURAL RESOURCES

Forest resources : Use & over-exploitation, deforestation. Timber extraction, mining, dams & their effects on forests & tribal people. Water resources : Use & over-utilization of surface & ground water, floods, drought, conflicts over water, dams- benefits & problems. Mineral resources : Use & over-exploitation - environmental effects of extracting & using mineral resources. Food resources : World food problems changes caused by agriculture & overgrazing, effects of modern agriculture, fertilizer-, pesticide problems, water logging, salinity. Energy resources : Growing energy needs, Renewable & non-renewable energy sources, use of alternate energy sources. Land resources : Land as a resource, land degradation, man induced landslides, soil erosion & desertification. Role of an individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles.

UNIT - IV : COMMUNITY AND ECOSYSTEMS

Population : interaction between environment and population, Biotic community: interaction between different species, biotic stability. Concept of an ecosystem, structure & function of an ecosystem , producers, consumers & decomposers, energy flow in the ecosystem , ecological succession, food chains & food webs, ecological pyramids. Types, characteristic features, structure & function of the - forest ecosystem, grassland ecosystem, desert ecosystem, aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).

UNIT- V : BIODIVERSITY AND ITS CONSERVATION

Introduction- definition : genetic, species & ecosystem diversity ; Biogeographical classification of India ; value of biodiversity : consumptive use, social, ethical, aesthetic & option values ; biodiversity at global, national & local levels ; India as a mega-diversity nation ; hot-spots of biodiversity ; threats to biodiversity - habitat loss, poaching of wildlife, man-wildlife conflicts. Endangered & endemic species of India ; conservation of biodiversity : In situ & Ex-situ conservation of biodiversity.

UNIT -VI : ENVIRONMENTAL POLLUTION

Definition, causes, effects & control measures of : air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution, nuclear hazards ; Solid waste management : causes, effects & control measures of urban & industrial wastes ; role of an individual in prevention of pollution ; Disaster management : floods, earthquake, cyclones & landslides.

UNIT - VII : SOCIAL ISSUES AND THE ENVIRONMENT

From unsustainable to sustainable development ; urban problems related to energy, water conservation, rain water harvesting, watershed management, Resettlement & rehabilitation of people ; its problems & concerns. Environmental ethics : Issues & possible solutions. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents & holocaust. Wasteland reclamation, Consumerism & waste products, Environment Protection Act, Air (Prevention & Control Pollution)Act , Water (Prevention & Control Pollution) Act, Wildlife Protection Act, Forest Conservation Act. Issues involved in enforcement of environmental legislation, public awareness.

UNIT-VIII : APPLICATION OF BIOLOGY

Biofertilizers- green manures, nitrogen fixation - symbiotic & nonsymbiotic. Communicable diseases including STD & diseases spread through blood transfusion such as AIDS & Hepatitis. Immune response - vaccines & antisera, allergies & inflammations. Inherited diseases & dysfunctions sex linked diseases, genetic incompatibility & genetic counseling. Cancer : major types, causes, diagnosis & treatment tissues & organs. Human population growth - problems & control, Test tube babies, amniocentesis.

ENGLISH

History of English Literature(from Elizabethan period to Twentieth Century with special focus on the writers prescribed in the syllabus of Entrance Test)

Literary Terms:

- i) Kinds of Poetry – Lyric, Ode, Elegy, Sonnet, Dramatic Poetry.
- ii) Figures of speech- Simile, Hyperbole, Oxymoron, Synecdoche, Personification.

Drama:

- i) *Macbeth* by Shakespeare
- ii) *Doll's House* by Ibsen

Prose and Fiction:

- a) Prose - i) Bacon : Of Studies
ii) Joseph Addison : Exercise of Fans
iii) Charles Lamb : Chimney Sweepers
- b) Fiction - *Jane Eyre* by Charlotte Bronte

Poetry:

- i) John Milton : Satan's Speech
 - ii) Andrew Marvel : To his Coy Mistress
 - iii) John Keats : Ode to Autumn
 - iv) William Wordsworth : Ode to Duty
 - v) T. S. Eliot : Journey of the Magi
 - vi) Wilfred Owen : Strange Meeting.
-

FOOD SCIENCE AND TECHNOLOGY

- Definition of nutrition, nutrients, Malnutrition, Inter-relationship between nutrition and health. Basic five food groups and how to use food guide.
- Water as a nutrient, function, sources, requirement. Water balance-effect of deficiency.
- Moisture in foods, hydrogen bonding, bound water, water activity and food stability.
- Energy- units of energy, food as a source of energy. Recommended dietary allowances. B.M.R activities. Utilization of food for energy requirements.
- Acid-base balance.
- Carbohydrates:-classification, structure, properties, food sources, functions, storage in the body. Changes in cooking and processing. Other sweetening agents.
- Fats and oils-classification, properties, food sources, functions.
- Amino acids and proteins-sources, functions, properties, denaturation. Assessment of protein quality, nitrogen balance, modification of food protein through processing, protein deficiency.
- Minerals-functions, sources, bio- availability and deficiency.
- Vitamins- classification, units of measurement, sources, functions and deficiency.
- Vitamin and mineral loss during processing, their fortification, enrichment and restoration.
- Enzymes, nomenclature, kinetics, controlling enzyme action. Enzymes added to food during processing, modification of food by endogenous enzyme, enzyme inhibitors present in food
- Pigments & Flavours in fats, fruits & vegetables.
- Introduction to microbiology, General characteristics of bacteria, fungi, virus, protozoa, algae.
- Role of microbiology- Environmental effects on microbial growth.
- Effects of micro-organisms on food degradation and food born illnesses-Bacteria, virus, Molds, yeasts and parasites
- Control of micro-organisms, growth curve, oxygen availability, temperature and others.
- Microbial intoxications and infections-sources of contaminations of food, toxin production and physiological action and methods of control, beneficial effects of micro-organisms, relevance of microbiological standards for food safety.
- Microbiology of different foods- spoilage and contamination-sources, types, effects on the cereals and cereal products, sugar and sugar products, vegetables and fruits,
- Fish and other sea foods, Eggs and poultry, Meat and meat products milk and milk products, Canned and other processed foods
- Other food hazards-chemicals, antibiotics, hormones, metal contamination
- Food contamination:-sources& transmission.
- Importance of personal hygiene of food handler
- Safety in food, Procurement, storage, handling and preparation, control of spoilage and safety of left over.
- Cleaning methods- sterilization and disinfection
- Kitchen sanitation

- Sensory assessment of food quality by various methods
- Consideration for testing sensory evaluation:-Testing area, Testing set up, Lighting, Testing schedule, Preparation of samples, Cooling and order of presentation, types of panels trained and consumer panels, semi-trained.
- Importance of packaging, Evaluation of food package, Criteria, appearance, protection, function, cost, material and forms of packing, Different food packaging material, Packaging methods and performances, Food and food packaging interactions
- Food packaging and labeling, Packaging evaluation, Shelf life estimation methods
- Principles of food processing& preservation:-thermal processing, ionizing, radiation, refrigeration, freezing, dehydration, chemicals
- Basic processing technology of cereals and legumes, oil seeds, fruits and vegetables, milk and milk products, meat ,fish, poultry and eggs.
- Fermentation technology, Preservatives and additives, extruded foods
- Spectrophotometry, Fluorimetry, Radioactivity, Chromatography
- Food Laws & food Standards
- Food Adulteration, adulterants& tests for detection
- Importance of Toxicology
- Naturally occurring toxins in various foods
- Physical treatment of food and health hazards, carcinogens, Genetically engineered Food and their safety
- Food composition and factors affecting food composition.
- Sampling techniques, preparation of sample
- General physical methods to analyses foods:- Lactometric determination, Refractometric, Polarimetry & Polarography, Food Rheology, Viscosity, Surface tension, Freezing point
- General Chemical methods of analysis in Food:-proximate principles, Moisture, Specific gravity, Ash and types, Total protein, Total fat, Total carbohydrates, Crude fiber and dietary fiber.
- Market and consumer Research. Needs and types of foods – consumption trends, Economics, Psychological, Anthropological and Sociological dimensions of food consumption.
- Trends in social changes and its role in diet pattern in the social trends as a frame work in new product innovation.
- Food situation in India and outside. Tapping the unconventional post harvest losses and prospects for food processing for export.
- Traditional foods – status and need for revival in the context of westernized non-traditional foods, urbanization and such factors.
- Product development – Primary processing, secondary processing.
- Types of products Eg. Quick cooking. Fast foods. Fabricated foods. Convenience foods.

Entrepreneurship:- Plant location, Investment, Financing in Project, Equipment and Space, Costing of product, advertising and marketing

GEOGRAPHY

Physical Geography:

Origin of the Earth, Earth's Interior and Composition, Rocks-origin and types, Geomorphic agents and processes, Geomorphic landforms, Volcanoes and Earthquakes.

Atmospheric composition and structure, Atmospheric temperature, pressure, Weather and climate, Climatic classification, Atmospheric disturbance-Cyclone, Western Disturbance

Configuration of Ocean floor, Temperature of sea water, Salinity of seawater, Ocean water circulation and currents, Tsunami, Coral Reefs, Ocean Deposits.

Geography of India:

India in context to Asia, Physiographic division of India, Indian Monsoon, River system, Climate and natural vegetation, Soil, Indian Agriculture, Environmental Problems and measure of Conservation.

Resource Geography:

Classification of resources, Major resources with reference to Water, Mineral, Agricultural, Soil, Petroleum, Forest and Biotic resources and their world distribution, Resource depletion and their conservation.

Geography of Asia:

Countries and Regions of Asia, Physiography, Climate, Vegetation, Population, Asia's position in the World, European exploration of Asia.

Geography of Jammu & Kashmir:

J&K in context of India, Physiography, Climate, Drainage, Agriculture, Horticulture, Apiculture, Sericulture, Industries, Export import, Transport and communication, Tourism Development.

Practical Geography

Scale, Projections, Statistical techniques in Geographical analysis- Mean, Median Mode, Standard Deviation, Isopleth and Choropleth, GIS, Remote Sensing and GPS.

GEOLOGY

Petrology:

Origin, types, texture, structure, classification and forms of igneous rocks, Bowens reaction series, Phase rule, mineralogical characteristics of igneous rocks , ACF and AKF diagrams.

Mechanism of formation, texture, structure and classification of clastic and non clastic sedimentary rocks.

Metamorphism, types and agents; greenstone, granulite and amphibolite rocks, metamorphic evolution of pelitic and calcareous rocks.

Structural Geology / Geomorphology/Hydrology

Attitude of beds, folds, faults, joints, foliation, lineation, rock deformation, interior of earth, plate tectonics, continental drift, sea floor spreading, origin of earth, earthquakes and volcanoes.

Rock weathering, landforms produced by river, wind, glaciers, Karst topography, coastal geomorphology, application of geochronology in geology.

Types of aquifers, distribution of groundwater, hydrological cycle, permeability and porosity

Mineralogy / Crystallography:

Petrological microscope, polarized light, nicol prism, pleochroism, birefringence, interference colour, extinction, refractive index, uniaxial and biaxial minerals; composition, physical and optical properties of rock forming minerals; structure, morphology, symmetry and classification of crystal systems, Twinning laws, crystallographic projections.

Palaeontology/ Stratigraphy:

Origin of life through ages, fossilization, morphology and geological distribution of major invertebrates, code of nomenclature, evolution of horse and elephant, plant fossils and gondwana flora.

Geological time scale, stratigraphic classification, correlation of Palaeozoic, Mesozoic and Cenozoic successions of India.

Economic Geology:

Classification, properties, composition and mode of occurrence of minerals and ores. Mineral reserves in India; metallogenic provinces and epochs; process of formation of mineral deposits; supergene enrichment, residual deposits; hydrothermal deposits; mode of occurrence and distribution of ore deposits in India, mineral exploration; abrasive, industrial and refractive minerals; fossil fuels, oil traps, radioactive minerals.

HISTORY

Indus valley: Economy; Vedic Age: Society, Economy & Polity; Jainism and Buddhism: Origin and Growth; The Mauryas: Sources, Asoka's policy of *Dhamma*; Post Mauryas: Trade Commerce and Cultural Developments; Guptas: Cultural Developments; Harsha: Territorial expansion and Administration; Contributions of Lalitaditya, Avantivarman and Dida to Kashmir history.

Sultanate of Delhi under Qutubuddin Aibak and Iltutmish; Balban's Theory of Kingship, Alauddin Khilji's Market Control and Conquests; Muhammad Tughluq's Transfer of Capital and Token Currency; Firoz Shah Tughluq's Agrarian Reforms and Public Welfare Activities, Conquests of Sikandar and Ibrahim Lodi, Architecture of the Sultanate of Delhi, Jammu under Raja Maldev and Ranjit Dev, Kashmir under Zain-ul-Abidin.

Causes and Spread of 1857 India's First War of Independence; Brahma Samaj, Arya Samaj and Theosophical Society; Acts of 1858, 1909 and 1919; Factors and Spread of Indian National Movement; Moderate and Extremist Groups of Indian National Congress; Non-Cooperation Movement; Simon Commission; Quit India Movement; Cabinet Mission; Mountbatten Plan; Jammu and Kashmir State under Maharaja's Gulab Singh & Ranbir Singh.

Causes and Growth of Industrial Revolution; American War of Independence; French Revolution; Unifications of German & Italy; Russian Revolution, Causes of Spread of World War-I; Peace Settlement of 1919 League of Nations; Causes, Spread and Impact of World War-II; Formulation of UNO.

HOME SCIENCE (Human Development & CRME)

INTRODUCTION TO HOME SCIENCE:

- I. Meaning, philosophy and scope of Home Science
- II. Home science as a discipline: Structure and components.
- III. Interdisciplinary nature of Home Science education
- IV. Home Science for personal, professional and community development.
- V. Vocational development through Home Science.

EXTENSION AND COMMUNICATION

- I. Extension Education: Concept, nature, history, philosophy and principles of extension education, Characteristics and nature of extension work, extension education and services.
- II. Home Science Extension: History, development and relevance ,Home Science extension as a discipline qualities of an extension worker.
- III. Programme Planning: Concept, scope and process, Models, Implementation and Evaluation
- IV. Communication: Concept, history, nature, significance, Process and Approaches-Individual, group, mass, Audio-Visual aids-Types and uses.
- V. Developmental Communication: Definition, Models of Developmental Communication, Use of ICT in developmental communication.

HUMAN DEVELOPMENT

- I. Life Span Development: Principles of human development, Tasks and Milestones, Stages of Development Child rearing and socialization practices.
- II. Methods of Child Study: Interview, Observation, Sociometry, Case Study
- III. Early Childhood Care and Education: Definition, importance and scope, ICDS: Introduction, objectives, beneficiaries
- IV. Family Studies: Marriage and Family: Definition, types, family life cycle, Issues concerns of various types of families, family counseling.
- V. Women and Child Welfare: Demographic profile of women and children in nutrition, education and survival, Children at risk: Street and working, parentally deprived, neglected and delinquent, children in armed conflict, Children with special needs: Concept and classification, developmental needs of orthopedically challenged, mentally challenged and sensory impaired.

FOOD AND NUTRITION

- I. Food: Functions of Food, Food groups and their nutritive value, Concept of Nutrition and nutritional needs of various age groups.
- II. Food preparation , preservation and processing:Effect of preparation on food component, Factors effecting food acceptance, Principles & methods of food preservation and

- processing, Food adulteration, Food Laws and food standards.
- III. Normal and Therapeutic Diet: Meal Planning: Importance basic principles and factors affecting meal planning, Normal Diet: Nutrition through life cycle; Therapeutic Diet: Diet for Diabetes, Hypertension, liver diseases, gastrointestinal diseases
 - IV. Community Nutrition: Nutritional and health status and Methods of Assessment, Malnutrition: Factors affecting and types
 - V. Nutritional Programme and Agencies working to combat malnutrition: ICDS Mid-day meal, Vit A and Vit D prophylaxis, Nutritional Anaemia, ORT, prophylaxis programs, Role of WHO, FAO, UNICEF, CARE, NIN, NFI, FND, FIRI, NNMB, ICMR, ICAR.

CLOTHING AND TEXTILES

- I. Textile Fibres and Yarns: Classification of textile fibres, properties and structure of cotton, wool, silk, rayon, nylon and acrylic fibres, Spinning, types and properties of yarns, classification of weaves, methods of fabric construction.
- II. Clothing: History, theories and significance of clothing, Factors affecting clothing, Equipment & Tools for clothing construction
- III. Finishing & Laundering: Importance and classification of finishes, Dyeing and printing: Dyed and printed fabrics of India, Laundering: Classification, equipments and agents for laundering natural and manmade fabrics.
- IV. Fashion Design: Elements, principles and components of fashion design, Fashion Cycle, Factors affecting fashion
- V. Fashion Marketing and Buying: Definition of Marketing, fashion marketing in practice, Importance and problems of textile industry, Buying and care of household linen and personal garments.

RESOURCE MANAGEMENT

- I. Management: Concept and steps of Management process, Classification and Availability of Resources goals, values, standards, decision making and work simplification
- II. Elements of Design: Principles and elements of Art and Design, Colour: Definition, dimension, theories, classification of colour, colour schemes, Application of elements and principles of design
- III. Family Resource Management: Family Income: Types and expenditure, Family Budget: Steps, factors and Importance, Savings and Investments: Meaning and Type
- IV. Market and Price: Definition, types and function of Market & price, Factors affecting marketing and pricing, Sales promotion practices, branding, labelling, packaging and advertising.
- V. Consumer Economics: Definition of consumption, utility, production and exchange, Consumer problems: Causes and Solution, Consumer protection and education.

ENTREPRENEURSHIP DEVELOPMENT

- I. Conceptual framework: Definition, need and process, Entrepreneurship opportunities in Home Science
- II. Enterprise planning, Types of business and self employment opportunities.
- III. Launching: Process of launching an enterprise.
- IV. Management: Personnel, production, marketing, finance and quality control.
- V. Women Entrepreneurs: Characteristics, role, demand and challenges.

FUNDAMENTAL OF COMPUTERS AND RESEARCH

- I. Computer Basics: Overview, components, devices, operating systems.
- II Introduction to MS Word, MS Excel, MS power point, internet.

- III. Research methods: Definition, types and tools.
 - IV. Classification and analysis of data.
 - V. Report writing.
-

HUMAN GENETICS

Cell: Structure, function and Cell organelles

- 1) Introduction to cell
- 2) Prokaryotic and eukaryotic cell
- 3) Nucleus
- 4) Mitochondria
- 5) Endoplasmic Reticulum
- 6) Golgi Complex

Chromosomes: Types of Chromosomes

- 1) Polytene chromosome
- 2) Lamp brush chromosome

Chromosomal changes

- 1) Structural
- 2) Numerical

Chromosomal abnormalities

- 1) Down syndrome
- 2) Klinefelter syndrome
- 3) Turner syndrome

Human sex chromosomes: An introduction, Cell division

- 1) mitosis
- 2) meiosis

DNA structure and function

- 1) Physical and chemical structure of DNA
- 2) DNA replication

Human Physiology

Digestive system and associated glands

- i. Stomach, ii. Intestine, iii. Liver, iv. Pancrease

Human blood and its composition

Endocrine gland: Anatomy and physiology

Embryology

Gametogenesis

- i. Spermatogenesis, ii. Oogenesis

Fertilization

- 1) External fertilization
- 2) Internal fertilization

Cancer

- 1) Definition

- 2) Types
- 3) Cancer causing genes
- 4) Tumor suppressor genes

Stem cells

- i. Sources, ii. Applications

Detailed study of the following:

- i. Paramecium, ii. Amoeba

Parasitology**Life cycles of**

- i. Fasciola hepatica, ii. Taenia solium
-

INFORMATION TECHNOLOGY (M.Sc. IT)

1	(A) Series-Numeric and Alphabetic (B) Logical Reasoning	35%
2	English- Synonyms, Antonyms, Identification of Grammatical Errors etc	15%
3	Arithmetic including Percentage, Interest, Profit and Loss, Time and Work Height and Distance, Stock and Shares, Ratio and proportion, Average, Fraction etc. and Mathematics, Covering Trignmetry, Geometry, Algebra, Calculus etc	50%

KASHMIRI

KASHMIRI

شاعری:

- ۱۔ لال واکھ، شیخ شری، غزل، زبانیہ
- ۲۔ فرہنگ سبھی کوہلیں ہند جنگ، شیخ صنعان، مکر جہاں، جاناوارن ہنزہ دیل
- ۳۔ بہار نامہ، حسن ہرکس اندر نیران چھ نون، پٹیلکس کن، بہار
- ۴۔ سیر لال، آساگی تارکھ و تان انسانس، پہلی کور، دہہ و ہری، کرنا و تارکھنا پور، مندور
- ۵۔ بے زبون ہالیہ، چلیہ وارا آسہ ہا، اکھ پرون شہر، بشر پھہ، نیلہ تاگ، انجام، سوہ لاکھ پٹینہ

نثر: (افسانہ) ہروداد، حاسل چھ روٹل، چھ رازدانے، سوال چھ کلک، بیلیہ سے نیلہ ٹائی لاج، پرالب، کریشن، تو تن کھامون

(ڈراما) بپ جی، دستار، منزلی تک

۱۔ لفظ اہمیت، خانین ہنزہ علاقہ سی زبان، کلچر سی زبان، ہمزہ ہوم،

۲۔ زبان، کاشرین لکھ ہاتن منز کا شرتھ کی آثار، کاشرینا پتھ قدیم کاشرس تو ارنس منز، کاشر لکھ کچھ سی تو ارنج،

۳۔ کاشرین ہنزہ تو ارنج، کاشرینا پتھ کاشر ادب، کاشر دیو مالہ

۴۔ کاشر صوتیات، فطرس منز ما حولیاتی نظام، بھل چھے تھان

(ترجمہ) ڈاکٹر ہائیگر سید تجرہ، خود غرض جن، شہزادی یوسہ زون چھے منگان، بیکلس، لچھو ڈوہے کاشر روہے، جیکلک لطف

شاعر تہ ادیب: لال دید، شیخ العالم، غلام احمد مجبور، میر غلام رسول نازکی، وہاب پرے حاجتی، محمود گامی، مقبول شاہ کراچی، واری، مومن صاب، غلام نبی فراق، عبدالاحد آزاد، رجن راجی، قاضی غلام محمد، موتی لال ساقی، محمد امین کاتل، ارجن دیو مجبور، ناجی منور، ماسٹر زینہ کول، اختر می الدین، سوم تاتھ سادھو، ہسی زردوش، بشر پتھیر، شیخ شوق، رتن لال تلاقی، شاد رمضان، موتی لال تیمو، نسیم شفاقی، مجروح رشید، محمد شفیع سمبلی، برکات پتھ، رتن لال شانیت، مرغوب بانہالی، علی محمد لون، ہری کرشن کول، محمد یوسف نیلگ، بشیر اختر، دینا تاتھ نادم، رسول میر، گریرن، رسا جاودانی، غلام رسول کامگار، نشاط کشتواڑی، غلام نبی خیال، پدم تاتھ گوجہ خاتون، پرمانند

TEXT BOOK PRESCRIBED:

ILLAM TE ADAB ,B.A Part I,II and III

Published By Department of Kashmiri,

Kashmir University Srinagar

M.Ed

Education : Concept, Aims and Agencies: Concept of Education: Functions of Education : Preservation, Transmission and Enrichment.

Aims of Education: Concept of Aims, Individual Aim, Social Aim, Individual Vs Social Aim.

Agencies of Education: Concept of Agencies of Education, Family, Home and School as major agencies imparting education in a society.

Curriculum and its Development: Curriculum : Meaning and Definitions.

Types of Curricula- Subject Centred, Learner Centred. Basic Principles of Curriculum Construction.

Curricular and Co-curricular Activities: Concepts and Types of Co-Curricular Activities, Importance of Organizing Co-curricular Activities in Educational institutions.

Education and Social Change: Meaning and Definitions of Social Change, Factors responsible for bringing about social change, Role of Education.

Education and National Integration – Concept of National and Emotional Integration, Barriers in way of achieving National Integration, Role of Education in Promoting National Integration.

Idealism : Concept, Salient Features of Idealisms with reference to Aims, Curriculum, Instructional Techniques, Discipline and Role of Teacher.

Pragmatism : Concept, Salient Features of Pragmatism with reference to Aims, Curriculum, Instructional Techniques, Discipline and Role of Teacher.

Naturalism : Concept, Salient Features of Naturalism with reference to Aims, Curriculum, Instructional Techniques, Discipline and Role of Teacher.

Concept of Indian Society : Social Justice and Equality, Human Rights, Consumer Rights, Gender Equality, Environmental Degradation, Globalization and Privatization- Role of Education.

Community and Education : Meaning of Community , Role of Education for upliftment of Community, Mass Media as a Social Means of Education.

Education and Culture- Concept of Culture, Features of Indian Culture, Relation between Education and Culture.

Inclusive Education : Meaning, Scope and Role of Inclusive Education.

Psychology and Education : Meaning of : i) Education ii) Psychology iii) Educational Psychology, Relationship between Education and Psychology. Difference between Psychology and Educational Psychology.

Theories of Learning – Thorndike’s Trial and Error Theory – Concept, Experiment, Laws of Learning based on the theory. Educational implications of the theory.

Gestalt Theory of Learning by Wolfgang Kohler, Concept, Experiment, Educational Implications.

Intelligence : Meaning and Definition of Intelligence.

Two Factor Theory by Charles Spearman, Description of the Theory, Characteristics, ‘g’ factor and ‘s’ factor, Educational Implications of the Theory.

Primary Mental Abilities Theory by LL Thurstone: Description of the Theory, Educational Implications of the Theory.

Intelligence Tests: Concept of Intelligence Tests, Uses of Intelligence Tests. Concepts of I.Q (Intelligence Quotient) MA (Mental Age) and CA (Choronological Age) Classification of I.Q. given by L.M. Terman.

Memory and Forgetting : Meaning and Definitions of Memory and Forgetting

Components of Memory : Learning, Retention, Recall and Recognition. Types of Memory, Signs of good Memory, Methods of memorizing, Factors responsible for causing Forgetting.

Measure of Central Tendency : Concepts of Mean, Median and Mode, Computation of Mean, Median and Mode of grouped and ungrouped data. Uses of various Measures of Central Tendency in Educational situations.

Methods of Studying Human Behaviour

Introspection- Meaning and definitions, process involved in introspection, merits and limitations of the method.

Observation –Meaning and Definitions, Types: Controlled and Uncontrolled, steps involved during observation, merits and limitations.

Experimental – Meaning and definitions, characteristics, steps involved in experimental method, merits and limitations.

Gifted and Creative Children: Meaning and definitions, difference between gifted and creative children. Characteristics of gifted children, identification of gifted children, educational provisions for the gifted children.

Mentally Retarded children: Concept of mental retardation, causes of mental retardation, educational provisions for mentally retarded children

Motivation and Adjustment: Concept : Types of motivation (intrinsic and extrinsic) Bases of motivation –needs (physiological and psychological) and drives.

Personality: Concept, Development of Personality, Types of Personality, Assessment of Personality : Subjective Techniques (Anecdotes, Autobiography, Case Study), Projective Techniques.

Devices of teaching: Meaning, importance, types of devices of teaching:

- a) Teaching devices: Meaning oral communication: exposition, narration, description, explanation, illustration, questioning, chalkboard, home-work, textbook, reference book.
- b) Fixing devices: Meaning and types (drill, review, recapitulation and repetitive practice)

Audio-visual aids: Meaning, objectives, classification, importance, advantages and limitations of:

- (a) Audio aids: Telephone, Radio, Tape-recorder
- (b) Visual Aids: Over-head projector, slide projector, maps, charts, models, flash cards, display boards and diagrams.
- (c) Audio-visual aids: films with sound tracks television, video.

Lesson Planning:

- b) Meaning, Importance, principles of planning, criteria of an effective lesson plan.
- c) Types of lesson: Knowledge, skill and appreciation lesson, significance and steps of each lesson.
- d) Approaches to lesson, planning: Herbartian and RCEM approaches.
- e) Preparation of unit/yearly lesson plan.

Method of teaching: Meaning, importance, procedure, advantages and limitations of:

- a) Inductive-Deductive method b) Analytical synthetic method c) Project method
- d) Problem solving method e) Heuristic Method

Elementary Education : Concept , objectives of elementary education. Concept of Universalization of Elementary Education (UEE), Promotion of UEE through SarvShiksha Abhiyan (SSA)

Secondary Education : Concept, Objectives of secondary education, Organizational Pattern as suggested by Kothari Commission of Education (1964-66) and National Policy on Education 1986, Main problems of secondary education and remedial measures to solve these problems.

Higher Education : Concept, objectives of higher education as per National Policy on Education. Problems being faced in higher education with emphasis on problem of Selective Admission, Autonomy & Examination and their remedial measures.

Women Education: Concept of women education, Need for prioritizing women education, Problems of women education and suggestive remedial measures.

Adult Education: Concept of Adult Education, Functions of adult education. National Adult Education Programme (NAEP)-Meaning and its features, National Literacy Mission (NLM), objective and importance.

Educational Technology : Concept of Educational Technology , Various approaches to implement educational technology towards Quality Education, Role of ICT in Education.

Teacher Education: Concept of teacher education, objectives of teacher education in India. Problems of teacher education, Role of NCTE in improving the Quality of teacher education in India.

Vedic Education : Meaning of Vedas, Aims of Education, Curriculum and Organization, Yoga-Meaning and Importance of Yoga Philosophy.

Buddhist Education : Aims of Education, Curriculum, Women Education, Qualities and Duties of Teachers.

Islamic Education : Salient Features, Aims, Process of Education and curriculum with Reference to Maktabas and Madrasas, Islamic Centres of Higher Education at Delhi, Agra, Jaunpur and Bihar. Sargent Report (1944), Radha Krishnan Commission –(1948), Mudaliar Commission-(1952-53), Kothari Commission-(1964-66), National Policy of Education (NPE) 1986 and 1992, CABE-Meaning, Composition and functions, NCERT- Meaning, Composition and Functions.

(M. Lib. I. Sc.) LIBRARY & INFORMATION SCIENCE

Foundations of Library Science and Society

Different types of Libraries, Library Legislation, Five laws of Library Science, Copyright Act, Basics of Resource Sharing and Consortia Approach, Professional Associations-ILA,IASLIC,UNESCO .

Organization of Documents

Library Classification - Species of Library Classification, Structure and Features of CC, DDC, UDC & Bibliographic Classification, Notation , Library Catalogue - Library Catalogue Codes - ALA, AACR2 and CCC, Physical Forms of Catalogue, Union Catalogue, Subject Cataloguing - LCSH and Rule of Thesauri, Chain Procedure, MARC .

Reference Service and Sources

Reference Service , Types of Information Sources, Information Literacy- Users Education, Evaluation of Print and Online Reference Sources .

Management of Libraries and Information Centres

General Principles and Theories of Management, Schools of Thought, Human Resource Management , Collection Development , Book Selection Principles, Financial Management; Budget and Budgeting Techniques , Library Building , Equipment and Space Management .

Documentation and Information Service

Indexing and Abstracting Services -Types , Reprographic Services-Methods,
Current Awareness Service (CAS) , Selective Dissemination of Information (SDI),
Methods and Techniques Documentation and Information Centres : NISCAIR, NASSDOC, SENDOC
.

Computer Application to Libraries

Fundamentals of Computer: Basic model, Input/ Output Units, Computer Memory, Storage Devices, Computer Generations and Classification Basics of Computer and Communication Technology: Network Topologies, LAN, WAN, MAN, Intranet, Extranet, Internet Computer Languages: Low Level, High Level, Languages Networks: ERNET, NICNET, INFONET. INFLIBNET, DELNET , Introduction to Operating Systems: DOS, Windows, UNIX and LINUX Operating Systems: Introduction to MS Office Package: Word, Power Point, Excel ,Features of WINISIS, SOUL and Koha .

M.P.Ed (PHYSICAL EDUCATION)

1. History of Sports
 2. Sports Aptitude
 3. General Knowledge of Different Games/ Sports
-

MATHEMATICS

Partial Differentiation, Euler's Theorem, Double Points, Polar co-ordinate system and its relation with Cartesian co-ordinate system, angle between radius vector and tangent to a curve. Integration and its applications. Calculus of vector-valued functions e.g. gradient, divergence, curl and their properties. De-Moivre's theorem and its application, exact equations, differential Equations of 2nd and 3rd order with constant coefficients.

Sets, relations and functions. Groups, subgroups, cyclic groups, quotient groups, and their properties. Group homomorphism and isomorphism. Lagrange's theorem and its applications. Real number system including least upper bound property. Sequences and their limits. Continuous and discontinuous functions. Equations of Sphere and cone and their elementary properties.

Definition and examples of a ring, ring homomorphism and isomorphism. Vector spaces, subspaces, linearly dependent and linearly independent vectors, basis and dimension of a vector space. Matrix representation of a linear transformation on a vector space and vice-versa. Inverse of a linear Transformation.

Types of matrices, rank of a matrix. Applications of Cayley- Hamilton theorem. Mean, variance and moment generating functions of Binomial, Poisson and normal distributions.

MICROBIOLOGY

History and scope of Microbiology, origin of microbes, pure cultures techniques, microbial culture media, sterilization, culture collection, purification and preservation. Principles and applications of microscopy (bright field, darkfield, phase contrast, fluorescence and immunofluorescence, confocal microscopy, electron microscopy).

Classification of bacteria; cultivation and reproduction in bacteria and viruses. Plant, animal and bacterial viruses, Retroviruses. Distribution, classification and reproduction of algae (Fristch) and fungi (Ainsworth). Morphology, motility and reproduction in protozoa.

Industrial products derived from microbes, industrial enzymes, production of antibiotics, vitamins and vaccines. Single cell proteins, biofertilizers, nitrogen fixation. Infectious disease transmission, respiratory diseases caused by bacteria and viruses, tuberculosis, sexually transmitted disease including AIDS.

DNA Structure: different forms of DNA: A, B, Z, Satellite DNA, DNA replication, Enzymology of DNA replication, Okazaki fragments, Rolling circle replication. Transcription: basal transcriptional apparatus and transcription factors, reverse transcription. Regulation of gene expression, Operon concept, Post transcriptional and Post translational regulations, Antisense RNA. Translation: structure, Protein synthesis.

Biophysical and biochemical techniques: Centrifugation-Principle, theory and applications, chromatography-principle, theory and applications of chromatography. Spectrophotometry, Electrophoreses-basic principle, theory and applications.

History of Enzymology, Enzyme vs chemical catalysts, Nomenclature and classification of enzymes, Enzyme activity, enzyme action, Enzyme substrate complex, Types of enzymes.

Tools in genetic engineering; Restriction enzymes: Polymerases, ligases, kinases, phosphatases, exonucleases, DNase, RNase and Proteinases; Cloning vectors; plasmids, cosmids, Genomic and cDNA libraries, Polymerase chain reaction, DNA sequencing, DNA fingerprinting, molecular markers; Introduction to Bioinformatics.

MUSIC:

A. Technical Terminology: (Detail study)

Nad, Shruti, Swaras, Chota Khayal, Bada Khayal, Dhruvpad, Dhamar, Tappa, thumr, Trana, Maseet Khani Gat, Raza Khani Gat, Raga, Thata, Alankar, Meend, Murki8, Chikari, Zamzama, Krintan, Jaud, Jhala, Toda, Nayak, Gayak, Chaturang..

B. Applied theory:

Section I.

- a) Establishment of swaras according to ancient and modern times.
- b) Establishment of 22 shruties in relation to vibrations and length of strings.
- c) Deffinition of Ragas:- Yamam, Kafi, Khamaj, Allhaia Billawal, Bngeshwari, Malkouns, Bhairav, Bahar, Mian-Malhar, Darbari, Adana, Bhupali, Deshkan.
- d) Deffinition of Talas:- Teen-Taal, Jhap-Taal, Ek-Taal, Char-Taal, Dadra, Keharva, Dhamar, Adachautal, Rupak, Deeopchandi, Thumra, Tilwara.

Section II

- a) Time theory of Indian Music.
- b) Classification of Indian Instruments.
- c) Detailed study of i) Grama ii) Murchana.
- d) Study of the Dakshani Tal Paditi.

Section III

- a) Detailed Study of Gharanas of Vocal/Instrumental Music.
- b) Biographical Sketches and the contributions of Indian Scholars and Musicians as :-
(i) Pt. V. N. Bhat khanday (ii) Pt. V. D. Paluskar (iii) Sharang Dev (iv) Sri Niwas (V) Man Singh Tomar (vi) Pt. Bhim Sen Joshi (vii) Pt. Ravi Shankar (VII)Ustad Willayat Khan (ix) **Nikhil Benar Jee** (x). Pt. Shiv Kumar Sharma.
- c) Granthas (Detailed Study):
Nataya Shatra, Sangeet Ratna kar , Brihd –Desi, Rag Vibhod, Geet Govind, Rag Tirangni.

Section IV :

- a. Knowledge of Western Music:- (i) Melodi (ii) Harmony (iii) Swaras (iv) Scales(v) Staff Notation.
 - b.) What are overtones. How seven tones are produced from the strings of Tan Pura.
 - c) Consonant and Disconsonant Notes
 - d.) Gamak and its kinds
 - e) Folk and Classical dances of India.
-

PHYSICS

Unit Vectors, displacement, area element, volume element, velocity and acceleration in Cartesian and Spherical Polar system, two body system, relationship between displacements, velocities, kinetic energies and angles in lab. and centre of mass systems, inverse square law of force, Kepler's laws. Energy of simple harmonic Oscillator, compound pendulum, Oscillation of two masses connected by a spring, driven harmonic oscillator, transient and steady state behaviour, Galilean transformations and conservation laws, conservation of momentum, and energy, search for ether and Michelson-Morley experiment, Lorentz transformations, length contraction, time dilation, variation of mass with velocity, mass energy equivalence, energy-momentum relation, Doppler effect, Scalar and vector fields, Gradient of a scalar field, line, surface and volume integrals, Divergence of a vector field, solenoidal field, Gauss's divergence theorem. Gauss's Law in integral and differential forms, line integral of Electrostatic field, Poisson's and Laplace's equations, Electric quadrupole, Electric field and potential due to a quadrupole, Dielectrics, Polarization of dielectric, Relation $\mathbf{D} = \epsilon_0 \mathbf{E} + \mathbf{P}$, Atomic Polarizability, Electric susceptibility, Equation of continuity, Electrical conductivity, Microscopic form of Ohm's law, Biot-Savart's law, Ampere's circuit law, Relation between magnetic dipole moment and angular momentum, Relation between \mathbf{B} , \mathbf{H} and \mathbf{M} , wave equations for \mathbf{E} and \mathbf{B} , Electromagnetic waves in dielectric medium, Reflection and transmission at normal and oblique incidence, Derivation of laws of reflection and refraction.

Periodic functions, even and odd functions, continuous and discontinuous functions, complex form of Fourier series, Fourier solution of simple function, Applications of Fourier theorem to square wave, rectangular wave, half wave rectifier and full wave rectifier. Legendre differential equation and its series solution, Legendre Polynomial, orthogonality property, Hermite differential equation and its series solution, Hermite polynomial. Laws of Thermodynamics, Entropy, Adiabatic expansion, Joule Thomson expansion, Boyle temperature, Maxwell's general relationships, Application to Joule-Thomson cooling and adiabatic cooling, black body radiation, Rayleigh-Jeans law, Planck's law, Wien and Rayleigh-Jeans law. Probability, macro and micro states, Phase space, Boltzmann's distribution law, Bose Einstein statistics, black body radiation and Planck's radiation law, Fermi Dirac statistics. Young's double slit experiment, Fresnel's Biprism, thin films (reflected and transmitted), Newton's rings, Michelson's interferometer, Nicol prism, quarter wave plate and half wave plate. Fresnel's Diffraction, rectilinear propagation of light, zone plate, diffraction at a straight edge, Fraunhofer diffraction, determination of wave length of monochromatic light using grating, resolving power of grating. Diodes, Liner Diode, Schottky, tunnel, light emitting, laser diodes, unijunction transistor, field effect transistor (FET), Half and full wave rectifier, ripple factor, L and π type filter circuits, characteristics of a transistor in CB, CE and CC mode, biasing of a transistor, Integrated Circuits (IC) and its classification, operational amplifier, inverter, Boolean identities, De-Morgan's law, logic gates, truth tables of OR, AND, NOT, NOR, NAND, XOR gates.

Compton effect, wave particle duality, phase and group velocity, Heisenberg's uncertainty principle, Schrodinger's wave equation (time dependent and independent), operators, expectation values, probability current density, Eigen values and Eigen functions. Bohr's correspondence principle, space quantization, electron spin, vector atom model, Fine structure of hydrogen atom, Zeeman effect, Paschen back effect, Binding energy, Nuclear stability, semi-empirical mass formula, liquid drop model, Nuclear forces and their properties, α , β and γ decay processes, neutrino hypothesis of Pauli, quarks as the basic constituent of matter their properties. Lattice and basis, unit cell, lattice types, symmetry elements in crystal, Miller Indices, reciprocal lattice, Laue's theory of X-ray diffraction, Bragg's law, superconductivity, Meissner Effect, Type I and II superconductors. Dia, para, ferro, antiferro and ferrimagnetism, Ferroelectric crystals and their applications, Defects in solids, Luminescence, Raman Effect, Principle of Holography, recording and properties of a hologram. Types of optical fibers, optical fiber sensors, Absorption, spontaneous and stimulated emission. Population inversion, active medium, pumping, metastable states. Three and four level pumping schemes, conditions for Laser action, Ruby and He-Ne laser.

POLITICAL SCIENCE

INTERNATIONAL POLITICS- Meaning, Nature and Scope, Approaches-Institutional Approach and System Approach

NATIONAL POWER - Meaning, Role and Major quantifiable and Non-quantifiable Elements

NATIONAL INTEREST- Instruments for promotion of National Interest-Diplomacy, Imperialism and Neo-imperialism

RESTRAINTS ON NATIONAL POWER - Collective Security and Balance of Power

CHANGING TRENDS IN INTERNATIONAL POLITICS - Cold War, Détente, Bipolarity and Unipolarity

STATE POLITICS IN INDIA: A FRAME WORK - Indian Federal Structure and Centre-State Relations, Contentious Areas of Centre-State Relations-Article 356 and Section 92 of J&K Constitution.

BACKGROUND TO POLITICS OF J&K - New Kashmir Manifesto and Instrument of Accession and Article 370 of Constitution of India

CONSTITUTIONAL STRUCTURE-Basic Features of the Constitution of J&K,Citizenship , Directive Principles of State Policy and Fundamental Rights

GOVERNMENTAL STRUCTURE - Executive –Chief Minister and Council of Ministers, Legislature and Judiciary

PARTY POLITICS IN J&K- Nature of Party System in J&K, Ideology and Political Program of INC, BJP and NC

PLATO - Concepts of Justice, Philosopher King, Education, Communism and Ideal State

ARISTOTLE - Ideal State, Slavery, Private property and Family, Citizenship, Classification of Governments and Theory of Revolution

MACHIAVELLI - Views on Human Nature, Ethics and Politics, Preservation and extension of power, and his contribution to Modern Political Thought

KARL MARX- Views on dialectical and Historical Materialism, Surplus Value, Class and Class Struggle, Theory of Alienation and Marx’s Theory of State and Revolution

M.K. GANDHI- Views on Non-violence (Ahimsa), Satyagraha, Ends and means, Property and Trusteeship and Relevance of Gandhi

COMPARATIVE POLITICS- Meaning; distinction between Comparative Government and Comparative Politics, Nature and Approaches, Structural-Functional Analysis, Decision-Making theory, Landmarks and Trends in Comparative Politics

POLITICAL CULTURE, Political Participation, Political Socialization and Political Development

POLITICAL PARTIES, Interest Groups and Voting Behavior

ELITIST THEORY OF DEMOCRACY, Pluralist Theory of Democracy, Dependency Theory and Features of Democratic and Authoritarian regimes

EMERGING CHALLENGES - Globalization, Women’s Empowerment, Environment Issues and Human Rights

NATURE AND SCOPE OF POLITICAL SCIENCE - Traditional Approaches, Behaviouralism and Systems theory

STATE, SOCIETY AND NATION , Theories of Origin of State, Social Contract Theory, Austin’s Theory of Sovereignty, Pluralistic Theory of Sovereignty

THEORIES OF NATURE OF STATE - Organic, Liberal and Marxist, Rights, Liberty and Equality and Justice

POWER, Authority and Legitimacy, Democracy and Concept of Revolution

LIBERALISM, Marxian Socialism and Welfare State

PHILOSOPHY OF INDIAN CONSTITUTION- Basic Features and Amendment of Indian Constitution

INDIAN PARLIAMENT - The President of India, The Prime Minister and Council of Ministers and The Supreme Court of India

FEATURES OF INDIAN FEDERALISM, Fundamental Rights and Duties and Directive Principles of State Policy

CHANGING NATURE OF PARTY SYSTEM IN INDIA, Coalition Politics

COMMUNALISM AND SECULARISM, Caste and Indian Politics and Regionalism in Indian Politics

PSYCHOLOGY

INTRODUCTION TO PSYCHOLOGY: Psychology: Nature and scope. **Methods:** Introspection, Observation, Experimental. **Schools of Psychology:** Structuralism, Functionalism, Psychoanalysis, Behaviourism and Gestalt. **Emotions:** Nature, Theories – James- Lange, Canon- Bard and Singer-Schachter. **Motivation:** Nature, Conflict and Motives. Theories: Maslow and Murray. **Learning:** Nature, Laws, Theories - Pavlov, Skinner, Thorndike and Kohler. **Attention:** Nature, Types & Determinants. **Memory:** Process, Stages of memory – Sensory, Short term and Long term. **Forgetting:** Nature and Theories. **Intelligence:** Nature, Measurement, Theories – Spearman, Thurstone, Thorndike, Guilford. **Personality:** Meaning, Classification – Sheldon, Kretschmer. Psychodynamic Theories of Personality – Freud, Adler and Carl Jung. Factors affecting Personality. Assessment of personality: Rating scales, Interview, Questionnaire, Projective Techniques.

HUMAN DEVELOPMENT: Nature, Issues, and scope of studying Human Development. Longitudinal, cross – sectional and sequential designs. **Heridity and Prenatal development,** Basics of Genetics, Genetic disorders, Heridity and Environment, Stages of Prenatal development and factors influencing Prenatal Development. **Theories of Human Development :** Freud, Erickson, Bandura, Piaget, Vygotsky. **Infancy:** Physical changes; Language Development; Social – Emotional Development. **Childhood:** Physical changes; Language Development; Social – Emotional Development. **Adolescence:** Physical changes; Cognitive Development; Social Emotional Development. **Adulthood:** Self concept and identity; Erickson’s view of Young Adulthood; career; Marriage and Parenthood.

ABNORMAL PSYCHOLOGY: Normality and Abnormality; Classification of Abnormal Behaviour; causal factors in Psychopathological behaviour; Determinants of Abnormal Behaviour: Biological, Psychological and Socio – cultural. **Frustration** – Nature, Sources and Maladaptive consequences. **Neuroses:** Nature, Types (Anxiety and Hysteria), Symptoms and Etiology. **Psychoses:** Nature, Types (Schizophrenia and Manic – Depressive Psychosis), Symptoms and Etiology. **Mental Retardation:** Nature; Causes; Prevention and Intervention, Families of Mentally retarded children. **Therapies:** Psychoanalytic; Behaviour; Cognitive; Humanistic and Existential.

EXPERIMENTAL PSYCHOLOGY: The Nervous system: Central Nervous System and Peripheral Nervous system. The **Endocrine system:** Hormones and Behaviour. **Sensation:** Nature of Sensation – Visual sensation, Auditory sensation, Cutaneous, Gustatory and Olfactory Sensation. **Perception:** Meaning, Gestalt laws of Perceptual Organization, Depth Perception, Illusion, Delusion and Hallucinations. **Thinking;** Concept Formation: Deductive and Inductive Reasoning. Problem Solving and decision making – steps in Problem Solving. Heuristics and Algorithms. **Psychophysics:** Meaning and Laws; Methods: Limit, Average Error, Constant stimuli, Signal Detection theory.

SOCIAL PSYCHOLOGY: Social Psychology: Nature, Scope and importance. **Methods:** Interview, Field survey, Questionnaire, and Sociometric. **Groups:** Nature, Types & Functions of a group. **Leadership:** Concept, characteristics and Functions. **Attitudes:** Nature, Formation and Determinants. Measurement: Method of Equal appearing interval, Method of Summated Rating, Social Distance Scale, Semantic Differential. **Public Opinion:** Meaning, Characteristics and Formation. Methods of measuring Public Opinion. **Prejudice:** Nature, Types and Formation. Methods of reducing Prejudice. **Stereotypes:** Nature & Kinds. **Propaganda:** Nature, Kinds, Techniques. **Socialization:** Meaning and Process, Stages of Socialization: Infancy, childhood and Adolescence. Theories of socialization: Cooley, Freud, Behaviouristic Theory. **Social Interaction:** Nature, Types & Process: Communication, Cooperation, Competition, Conformity, Compliance, Social facilitation.

MEASUREMENT AND STATISTICS IN PSYCHOLOGY: Statistics: Meaning and its role in psychological research. Scores, frequency, continuous and discrete series. Graphical Representation – histogram, frequency polygon and ogives. **Measures of Central tendency** – Mean, Median and Mode. **Measures of Variability** – Range, MD, SD, QD (grouped data). Percentile and Percentile rank. **Correlation:** Meaning, Uses. Product moment & Rank difference method. **Psychological Testing:** Definition, Uses and Criteria of a good test. Reliability & Validity: Concept & types.. **Concept of Population,** Samples and its Types. Design and control of experiments. Formulation of Hypothesis. Independent and dependent Variables. Control and Experimental groups. **Measurement scales** – Nominal, Ordinal, Interval and Ratio Scales. Sources of error in measurement. **Scaling techniques** – Rating Scales, Method of Paired comparisons. Differential scales (Thurstone), Summated scales (Likert).

PUNJABI

ਰਿਆਸਤੀ ਸਾਹਿਤ ਦੇ ਪ੍ਰਸੰਗ ਵਿਚ :

- (i) ਰਿਆਸਤੀ ਸਾਹਿਤ ਦੇ ਮੋਢੀ ਸਾਹਿਤਕਾਰ ਦਾ ਨਿਰਨਾ।
- (ii) ਰਿਆਸਤੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਪ੍ਰਾਰੰਭ ਤੇ ਵਿਕਾਸ।
- (iii) ਰਿਆਸਤ ਜੰਮੂ-ਕਸ਼ਮੀਰ ਵਿਚ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਤੇ ਸਾਹਿਤ ਦੀ ਸਥਿੱਤੀ ਅਤੇ ਦਰਪੇਸ਼ ਸਮੱਸਿਆਵਾਂ।

ਪਾਠ ਪੁਸਤਕ : ਚਿੱਟਾ ਲਹੂ (ਨਾਵਲ)

ਲੇਖਕ : ਨਾਨਕ ਸਿੰਘ

- (i) ਨਾਵਲ ਦੀ ਸਮੱਸਿਆ ਅਤੇ ਉਸਦਾ ਆਲੋਚਨਾਤਮਕ ਅਧਿਐਨ।
- (ii) ਨਾਵਲ ਦਾ ਵਿਸ਼ਾ ਅਤੇ ਆਧੁਨਿਕ ਯੁਗ ਵਿਚ ਪ੍ਰਸੰਗਿਕਤਾ।
- (iii) ਨਾਇਕ, ਨਾਇਕਾ ਅਤੇ ਹੋਰ ਪਾਤਰਾਂ ਦਾ ਚਰਿਤਰ ਅਤੇ ਨਾਵਲ ਦੇ ਪ੍ਰਸੰਗ ਵਿਚ ਭੂਮਿਕਾ।
- (iv) ਨਾਵਲ ਦੀ ਸਾਹਿਤਕ ਪੱਖਾਂ/ਤੱਤਾਂ ਤੋਂ ਆਲੋਚਨਾ।
- (v) ਨਾਵਲ ਦੇ ਆਧਾਰ ਤੇ ਨਾਨਕ ਸਿੰਘ ਦੀ ਨਾਵਲ ਕਲਾ ਦੇ ਗੁਣ।
- (vi) ਨਾਨਕ ਸਿੰਘ ਦੀ ਪੰਜਾਬੀ ਨਾਵਲ ਨੂੰ ਦੇਣ।

ਪਾਠ ਪੁਸਤਕ : ਰਸੀਦੀ ਟਿਕਟ (ਸਵੈ-ਜੀਵਨੀ)

ਲੇਖਕ : ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ

- (i) ਆਧੁਨਿਕ ਵਾਰਤਕ ਰੂਪ ਸਵੈ-ਜੀਵਨੀ ਦੀ ਬਣਤਰ ਅਤੇ ਤੱਤਾਂ ਦਾ ਵਿਵੇਚਨ
- (ii) ਰਸੀਦੀ ਟਿਕਟ ਦੇ ਆਧਾਰ ਤੇ ਦਸੋ ਕਿ ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ ਇਕ ਸਫਲ ਸਵੈ-ਜੀਵਨੀਕਾਰ ਹੈ।
- (iii) ਸਵੈ-ਜੀਵਨੀ ਦੀ ਪਰਿਭਾਸ਼ਾ ਅੰਕਿਤ ਕਰਦੇ ਹੋਏ, ਰਸੀਦੀ ਟਿਕਟ ਨੂੰ ਸਵੈ-ਜੀਵਨੀ ਰੂਪ 'ਚ ਪਰਖੋ।
- (iv) ਰਸੀਦੀ ਟਿਕਟ ਵਿਚਲੀ ਕਿਸੇ ਇਕ ਘਟਨਾ ਦਾ ਵਰਣਨ ਕਰੋ।
- (v) ਰਸੀਦੀ ਟਿਕਟ ਦੇ ਆਧਾਰ ਤੇ ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ ਦੀ ਵਾਰਤਕ ਕਲਾ ਬਾਰੇ ਲਿਖੋ।
- (vi) ਰਸੀਦੀ ਟਿਕਟ ਵਿਚ ਯਾਦਾਂ, ਪ੍ਰਸੰਗਿਕ ਵੇਰਵਿਆਂ ਅਤੇ ਸ਼ਖਸੀਅਤਾਂ ਦਾ ਵਰਣਨ ਤੇ ਵਿਸ਼ਲੇਸ਼ਣ।
- (vii) ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ ਦਾ ਸਵੈ-ਜੀਵਨੀ ਸਾਹਿਤ ਵਿੱਚ ਸਥਾਨ ਨਿਸ਼ਚਿਤ ਕਰੋ।

ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ

- (i) ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਆਰੰਭ ਨਾਲ ਜੁੜੇ ਮੁੱਖ ਪੱਖ ਅਤੇ ਪ੍ਰਬੰਧ ਪੰਜਾਬੀ ਸਾਹਿਤ ਬਾਰੇ ਨਿਰਨਾ
- (ii) ਗੁਰੂ ਨਾਨਕ ਕਾਲ ਦੀਆਂ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤ ਧਾਰਾਵਾਂ - ਗੁਰਮਤਿ, ਸੂਫੀ, ਕਿੱਸਾ ਬੀਰ ਰਸੀ ਅਤੇ ਵਾਰਤਕ (ਜਨਮ ਸਾਖੀ ਪਰੰਪਰਾ)
- (iii) ਫ਼ਰੀਦ ਬਾਣੀ, ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ (ਸਾਹਿਤਕ ਅਤੇ ਸਮਾਜਕ ਮਹੱਤਵ), ਭਾਈ ਗੁਰਦਾਸ ਦੀਆਂ ਵਾਰਾਂ, ਚੰਡੀ ਦੀ ਵਾਰ, ਹੀਰ ਦਮੋਦਰ, ਮਿਰਜ਼ਾ ਸਾਹਿਬਾਂ ਪੀਲੂ, ਸ਼ਾਹ ਹੁਸੈਨ ਤੇ ਸੁਲਤਾਨ ਬਾਹੂ ਦੀ ਸੂਫੀ ਦੇਣ, ਪ੍ਰਮੁੱਖ ਪ੍ਰਾਪਤੀਆਂ, ਸਾਹਿਤਕ ਮਹੱਤਵ ਤੇ ਦੇਣ।
- (iv) ਅਠਾਰਵੀਂ ਸਦੀ ਦਾ ਕਿੱਸਾ ਸਾਹਿਤ - ਸਮੁੱਚੀ ਪਰੰਪਰਾ ਦੇ ਪ੍ਰਸੰਗ ਵਿਚ।
- (v) ਅਠਾਰਵੀਂ ਸਦੀ ਦਾ ਸੂਫੀ ਸਾਹਿਤ, ਸਮੁੱਚੀ ਪਰੰਪਰਾ ਦੇ ਪ੍ਰਸੰਗ ਵਿੱਚ।
- (vi) ਵਾਰਿਸ ਸ਼ਾਹ, ਬੁਲ੍ਹੇ ਸ਼ਾਹ, ਵਜੀਦ ਅਤੇ ਨਜ਼ਾਬਤ ਦੀ ਆਪਣੀ ਆਪਣੀ ਸਾਹਿਤ ਪਰੰਪਰਾ ਵਿਚ ਦੇਣ।
- (vii) ਸਿੰਘ ਸਭਾ ਲਹਿਰ ਅਤੇ ਈਸਾਈ ਮਿਸ਼ਨਰੀਆਂ ਦੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਵਿਕਾਸ ਵਿਚ ਭੂਮਿਕਾ।
- (viii) ਸ਼ਰਧਾ ਰਾਮ ਫਿਲੌਰੀ, ਹਾਸ਼ਮ ਸ਼ਾਹ, ਕਾਦਰਯਾਰ ਅਤੇ ਫ਼ਜ਼ਲ ਸ਼ਾਹ ਦੀ ਆਪਣੀ ਆਪਣੀ ਸਾਹਿਤ ਪਰੰਪਰਾ ਵਿਚ ਦੇਣ।

REMOTE SENSING AND GIS

- (1) General Knowledge and Current Affairs
 - (2) English Comprehension
 - (3) Numerical Ability
 - (4) Data Sufficiency
-

1/4laLÑr1/2

laLÑr lkfgR; dk bfrgkI

- 1/4v1/2 _Xosn] ;tqosZn] lkeosn ,oa vFkoZosn dk lkekU; v/;;uA
 1/4c1/2 _Xosn ds&m"kl~] okd] uklnh;] laKkuLwäksa dk v/;;uA
 1/4l1/2 dsu mifu"kn~ dk fo'ks"k v/;;uA
 1/4n1/2 jkek;.k ,oa egkHkkjr dk laf{klr ifjp;A
 1/4;1/2 j?kqoa'k] f'k'kqikyO/k] uS"k/kh;pfjr vkfn egkdKO; dk laf{klr KkuA
 1/4j1/2 LoluoklonYk] vfHkKku'kkdqUry] mYkjjkepfjr] e`PNdfVd vkfn :idksa dk lkekU; KkuA
 1/4y1/2 okYehfd] osn] O;k] dkfynkl] HkoHkwfr] ek?k] v'o?kks"k] dYg.k] ,oa 'kqdnso 'kkL=h
 vkfn laLÑr dfo;ksa dk O;fDrRo ,oa NfrRoA
 1/4o1/2 laLÑr x] lkfgR;&mRifYk] fodkl ,oa fo'ks"krk,a rFkk laLÑrx] & 'kSyhA

laLÑr O;kdj.k ,oa Hkk"kkfoKku

- 1/4v1/2 izO;kgkj foospuA
 1/4c1/2 laLÑr o.kZekyk ,oa /ofu;ksa dk oxhZdj.kA
 1/4l1/2 laLÑr o.kksZPpkj.k] LFkku ,oa iz;RuA
 1/4n1/2 Loj] O;Ætu ,oa folxZ lfU/k;ksa dk lkekU; KkuA
 1/4;1/2 'kCn ,oa /kkrq :ikofy;ksa dk KkuA
 1/4i1/2 vtUr 'kCn & jke] gfj] xq#] fir`] Qy] okfj] e/kq] yrk] efr] unh] /ksuq] ekr`A
 1/4ii1/2 gyUr 'kCn & jktu~] Hkor~] fo]l~] lfjr~] eul~] xPNr~A
 1/4iii1/2 loZuke 'kCn & loZ] rn~] 1/4rhuksa fy³ksa esa1/2] ;q"en~ ,oa vLen~A
 1/4iv1/2 /kkrq:ikoyh & iB~] xe~] LFkk] Hkw] vn~] vl~] N] u`r~] fno] pqj] e{k] nk] /kk] ds ikWap
 1/4yV~] y³~] yksV~] y`V~] fof/kfy³x1/2 ydkjksa dk KkuA
 1/4v1/2 dkjd ,oa foHkfDr;ksa dk lkekU; KkuA
 1/4vi1/2 N~ izR; ;& 'kr`] 'kkup~] ä] Yok] äorq] vuh;] fäu~
 1/4vii1/2 laLÑr vuqokn

ukV~;'kkL=h; ,oa vyadki lEcU/kh lkekU; v/;;u

- 1/4v1/2 :id&y{k.k] HksnA
 1/4c1/2 uk;d @ ukf;dk & y{k.k ,oa Hksn foj.kA
 1/4l1/2 fo'oukFk ds vuqlkj dkO; iz;kstu] dkO; y{k.k] 'kCn 'kfä;ka] jl Lo:lK ,oa Hksn foospuA
 1/4n1/2 vuqizkl] ;ed] 'ys"k] miek] :id] mRizs{kk] vFkkZUrjU;kl] foHkkouk] fo'ks"kksfDr ,oa
 dkO;fy³x vkfn vyadkjksa dk lkekU; KkuA

xhrk ,oa uhfr dkO;

- 1/4v1/2 Jhen~Hkxon~xhrk] f}rh; v/;k; dk fo'ks"k&v/;;uA
 1/4c1/2 Hkr`Zgfj jfpr uhfr'krd dk fo'ks"k&v/;;uA

SOCIOLOGY

SOCIOLOGY AS A SCIENCE:

Meaning, Origin and Subject matter of Sociology; Nature of Sociology as a Science; Perspectives in Sociology – Functional, Conflict and Interactionist; Classical Sociological Traditions - Comte, Spencer, Durkheim, Marx, Weber, Parsons, Merton.

BASIC CONCEPTS:

Society, Community, Association, Institution; Culture & Cultural Change; Social Groups- Primary, Secondary and Reference Groups; Social Structure, Function; Social Stratification-Caste, Class, Power; Social Mobility; Socialization; Status and Role, Role- conflict, Role- set; Norms and values - conformity and deviance.

TYPES OF SOCIETY AND INSTITUTIONS:

Society - Tribal, Rural, Industrial and Urban; Institutions - Marriage, Family and Kinship, Religion, Economy and Polity.

SOCIAL RESEARCH:

Meaning and Objectives; Research Design; Types of Research; Sampling and types; Techniques of data collection; Basic Statistics – Mean, Median, Mode.

SOCIAL CHANGE AND DEVELOPMENT IN INDIA:

Meaning and Types of Social Change; Theories of Change; Factors of Change; Processes of Change: Sanskritization, Westernization and Modernization; Development of Marginalized Communities: Scheduled Castes, Scheduled Tribes, Backward Classes, Women.

STATISTICS

Definitions, Scope and importance of Statistics, qualitative and quantitative data, discrete and continuous data, Primary and Secondary data, classification and Tabulation, frequency distribution and their graphical and diagrammatic representations, Measures of central tendency Measures of Dispersion, partition values, Moments (raw & central moments) up to order four. Skewness & Kurtosis ,Bivariate data: Scatter Diagram, product moment correlation coefficient and its properties. Spearman's rank correlation coefficient. Intra class correlation coefficient and correlation ratio. Coefficient of determination.

Regression lines, regression coefficient and their properties. Principle of least squares. Fitting of a straight line, parabola, logarithmic and exponential curve by the method of least squares. Partial & Multiple correlation coefficient for three variables only (Derivations & simple illustrations).

Probability: Basic terminology, definitions of Probability, simple illustrations for three events, conditional Probability, theorems on Probability of two events and its extension. Independent events. Bayes theorem. Probability mass function and Probability density function, joint marginal and conditional pmf and pdf, Independence of random variables, Discrete & continuous random variables. Mathematical expectation of sum & product of two independent random variables, conditional expectation and conditional variance, moment generating function .Discrete Probability distributions: Uniform distribution, Bernoulli distribution, Binomial distribution, Negative Binomial distribution, Poisson distribution and their moments. Poisson distribution as a limiting case of B.D ,relation of Poisson distribution as a limiting case of negative B.D., recurrence formula for N.B.D. Hypergeometric distribution and its relation with Binomial distribution. .Rectangular distribution .Normal distribution, , Normal distribution as a limiting case of binomial distribution , Gamma , Beta and exponential distribution\ .Jacobian Transformation for one and two variables.

The concept of sampling distribution, sampling distribute of t & F, properties of these distribution and their inter relations.

Estimation: Point and interval estimation, Unbiasedness, consistency, efficiency & sufficiency. Methods of estimation: Methods of moments and maximum likelihood ,properties of M.L.E's (with proof).Testing of Hypothesis : Statistical Hypothesis, Null & alternative Hypothesis, Simple & Composite Hypothesis, two types of error, Critical region, Power of test, level of significance. Best Critical region, Test of Significance: One tailed and two tailed tests, test of significance for large samples for attributes & variable, proportions and means, single sample, two samples (both paired & independent). Small sample tests based on t, F & χ^2 test , confidence interval for single mean, difference of means & variance (only for normal case), Neyman-Pearson Lemma .

Complete enumeration Vs Sample enumeration; advantages and disadvantages of sample survey, Objectives of sampling and Non sampling errors, types of sampling. Probability, purposive and mixed sampling, random numbers. Simple random sample from finite population mean, sampling variance as an unbiased estimate of population variance, merits & demerits of SRS.

Meaning of Stratification, Method of Stratified sampling & its advantages and disadvantages. Mean and variance of Stratified sampling Proportional allocation optimum allocation, Comparison of stratified random sampling with SRS. Systematic Sampling. Ratio & Regression method of estimation under SRS. Cluster sampling (Equal cluster size) mean & Variance.

Analysis of variance for one way & two way classification, principles of design of experiment, concept & analysis of completely randomized design, randomized block design.

Demographic Methods;- Source of demographic data-census, register, adhoc survey hospital records, demographic profiles of Indian census, Life table, crude, death rates, mortality rate, crude birth rate, general fertility rate, total fertility rate, gross reproduction rate, net reproduction rate.

Index number-its definition, applications of index number, price relative and quantity or volume relative, link and chain relative problem involved in computational of index numbers, use of averages, simple aggregative and weighted average methods, Laspeyre's Paache's and Fisher's Index number, time and factor reversal tests of index number, Consumer price index.

Time Series analysis;- Economic time series, its different components, additive and multiplicative models, determination of trend, growth curves, analysis of seasonal fluctuations, construction of seasonal indices..

General theory of Control charts, control limits, X and R-charts, P-charts and C Chart.

Principle of acceptance sampling;- Problem of lot tolerance, stipulation of good and bad lots, producers and consumer risks, single and double sampling plans their OC functions, Concept of AQL, LTPD, AOQL, average amount of inspection and ASN function. Computational techniques: Difference tables and methods of interpolation, Newton and Lagrange's methods of interpolation, Divided differences, numerical differentiation and integration, Trapezoidal rule, Simpson 1/3 formula, interactive solution of non-linear equations.

Definition of General LPP, Formulation problem of LPP, graphical and simplex method of solving an LPP,, duality of LPP.

Urdu

- ۱۔ نوزن کی تحریف۔ اردو نوزل کا آغاز، بارگاہ، ذل پوشعرا، مدنی، غالب، میر، آتش، داغ، صلی، شہزاد، شمیم آبادی، امیر گوٹہ، قانی، دیوبلی، حسرت، موبلی، یاسر، گانہ، چنگیزی، فراق گورکھپوری
- ۲۔ انیسائے کا فن۔ اردو انیسائے کا آغاز، بارگاہ
- ۳۔ چند اہم نثر نگار۔ شیخ پریم چند، بی بی سمن، مسیح، سعادت حسین، منوکر، شمس، چند، مراد، انور، محمد عینی، حسرت چند، انیسائے کا فن
- ۴۔ چند نثر نگار۔ ملک کار، مدنی، کنہ، ہرے، گھر کی بی بی، انیس، شواری، شیخ، روزا، فرنگی، سوزک، گوتم، کوٹ، ڈاکھوسلا، یہ پانچ نثر نگار ہیں۔ ہر ایک کے نام لکھو۔
- ۵۔ نظم، نثر، نظم کا آغاز، بارگاہ، چند، اہم نظم گوشترا، صلی، اکبر ال آبادی، سرور، جہاں آبادی، کجلیت، علاء، اقبال، جوش ملیح آبادی، فیض احمد فیض
- ۶۔ مدد، چند، اہل کی تحریف، روای، قصیدہ، مسدس، نظم، چید
- ۷۔ قصیدہ کا فن، قصیدے کا آغاز، بارگاہ
- ۸۔ چند، اہم قصیدہ گو۔ سوزا، ذوق اور غالب
- ۹۔ مرثیہ کی تحریف اور خصوصیات
- ۱۰۔ چند، اہم مرثیہ گو۔ انیس، اقبال اور کجلیت
- ۱۱۔ ڈرامے کا فن۔ اردو ڈرامے کا آغاز، بارگاہ
- ۱۲۔ پریم چند، مرثیہ کی ڈرامہ نگاری
- ۱۳۔ شہزاد، قانی، شہزاد، بارگاہ
- ۱۴۔ چند، اہم شہزاد، مرثیہ، حسن، مراد، گل، شمیم، میر تقی میر
- ۱۵۔ چند، اہم شہزاد، مرثیہ، اقبال، گل، مرثیہ، گل، مرثیہ، گل، مرثیہ، گل
- ۱۶۔ انیسائے کی تحریف اور خصوصیات
- ۱۷۔ چند، اہم انیسائے نگار۔ مرثیہ، احمد خان، محمد حسین آزاد، کنہ، اہل کی، مرثیہ، گل، گل
- ۱۸۔ ناول کا فن۔ ناول کا آغاز، بارگاہ
- ۱۹۔ کرشن چندر کی ناول نگاری، اہل کے چند، گل، مرثیہ، گل۔
- ۲۰۔ تنقیدی تحریف، تنقیدی اہمیت، اذیت
- ۲۱۔ ادب کے، یو، اذیت، اذیت، اور مرثیہ، گل
- ۲۲۔ ادب برائے ادب
- ۲۳۔ نثر کی چند، گل
- ۲۴۔ ادب برائے زندگی
- ۲۵۔ رومانی، گل
- ۲۶۔ اردو زبان کا آغاز، بارگاہ
- ۲۷۔ فورٹ، گل، گل
- ۲۸۔ ڈاکٹر جان گل، گل، گل، گل
- ۲۹۔ میرا، گل، گل، گل
- ۳۰۔ گل، گل، گل، گل
- ۳۱۔ گل، گل، گل، گل
- ۳۲۔ مرثیہ، احمد خان کی خدمات
- ۳۳۔ مرثیہ کے، مرثیہ، گل، گل، گل، گل
- ۳۴۔ اردو میں نثر نگاری
- ۳۵۔ اردو میں صحافت نگاری
- ۳۶۔ اردو میں ادبی نگاری
- ۳۷۔ اردو میں طنز و مزاح کی ادبیت

ZOOLOGY

Life and Diversity of Invertebrates:

Salient features and classification upto class level from Protozoa to Echinodermata.

Life and Diversity of Chordates:

Salient features and classification upto class level from Hemichordata to Mammals.

Cell biology and Genetics:

Cytoplasmic organelles; Cell division; Chromosome structure and function; Structural and numerical changes in chromosomes.

Evolution:

Origin of life; concepts of evidences of organic evolution; Neo-Darwinism and modern concepts of Evolution; speciation.

Comparative Physiology in Animals:

Nutrition, feeding and digestion; Respiration; Excretion and Osmoregulation; Circulation; Endocrinology and Reproductive Biology.

Ecology:

Ecosystem concepts and Energetics; Human activity and animal resources.

Parasitology:

Structure of virus with special reference to bacteriophage; AIDS, Rabies, Tuberculosis, Bacillary dysentery; GIT as Habitat for parasites; Host-parasite specificity.

Economic Zoology:

Aquaculture with reference to pearl culture; induce breeding; Bee Venom; Uses of honey; enemies of honey bee; life-cycle of silk worm moth; Breeding and diseases of poultry and cattle; Poisonous snakes and venom; Insect pests and stored grains; In-vitro fertilization; Application and biotechnology with reference to Biofertilizers, Bioinsecticides and Antibiotics.

LIBRARY & INFORMATION SCIENCE (B. Lib. I.Sc.)

- (a) Basic understanding of different subject
 - (b) Aptitude for Libraries
 - (c) Basic Computer & IT skills
 - (d) Basic English
-

LAW (LL. B PROFESSIONAL) 3 YEARS

- 1 Legal Aptitude
 - 2 General English
 - 3 General Knowledge
-

POST GRADUATE DIPLOMA IN BUSINESS MANAGEMENT

The test is to be designed to measure a person's general Aptitude covering the following test areas:-

Test Area/s

1. Language Comprehension
2. Data Analysis and Sufficiency
2. Mathematical Ability
4. Intelligence and Critical Reasoning
5. General Awareness

The test will be on the pattern of Management Aptitude Test conducted by All India Management Association (AIMA).

PG DIPLOMA IN HUMAN RIGHTS AND DUTIES EDUCATION

General Awareness about Constitutional Law of India

- (i) Preamble
- (ii) Features of Constitution of India
- (iii) Fundamental Rights
- (iv) Directive Principles
- (v) Powers and position of President of India
- (vi) Powers and position of Governor of the State
- (vii) Appointment & Powers of Chief Minister of State

International Law and Human Rights

- (i) **Documents on Human Rights**
 - (a) Universal Declaration of Human Rights
 - (b) International Covenant on Civil and political Right
 - (c) International Covenant on economic, social and Cultural Right
 - (ii) **National Human Rights Commission**
 - (a) State Human Rights Commission
 - (b) Non-governmental organization
 - (iii) **United Nations organisation & its organs**
-

POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS (PGDCA)

1	(A) Series-Numeric and Alphabetic (B) Logical Reasoning	35%
2	English- Synonyms, Antonyms, Identification of Grammatical Errors etc	15%
3	Arithmetic including Percentage, Interest, Profit and Loss, Time and Work, Height and Distance, Stock and Shares, Ratio and proportion, Average, Fraction etc. and Mathematics Covering Trigonometry, Geometry, Algebra, Calculus etc.	50%

SAMPLE QUESTIONS FOR JUET- IN VARIOUS PROGRAMMES OF STUDY:

BIOTECHNOLOGY AND BIOCHEMISTRY

- If you remove all of the functional groups from an organic molecule so that it has only carbon and hydrogen atoms, the molecule becomes a _____ molecule.
a) carbohydrate b) carbonyl c) carboxyl d) hydrocarbon
- Animals store glucose in the form of
a) amylose b) glycogen c) glycerol d) cellulose e) guanine
- In proteins, elements of secondary structure combine to form a(n)
a) domain b) motif c) alpha helix d) beta sheet e) chaperone
- What is the limitation of Ti plasmid
a) Cannot be used for broad leaved plants b) Cannot be used for fruit bearing plants
c) Cannot transmit prokaryotic genes d) Does not infect cereals
- Which of the following molecules transfers the information from nucleus to cytoplasm?
a) DNA b) mRNA c) tRNA d) Protein

BOTANY

- Which of the following is not pathogenic to humans?
a) *Yersinia* b) *Vibrio* c) *Shigella* d) *Azotobacter*:
- An open reading frame is one that has:
a) no start codon and no stop codon b) a start codon and a stop codon
c) no start codon but a stop codon d) a start codon but no stop codon
- Those fossils which preserve both external and internal structures are called:
a) Compression fossils b) Incrustation fossils
c) Impression fossils d) Petrification fossils
- Which among the following has CAM?
a) *Ficus religiosa* b) *Tamarindus indica*
c) *Aloe vera* d) *Withania somnifera*
- Soil formation processes are called:
a) Geopedogenesis b) Pedogenesis
c) Thermopedogenesis d) None of the above

BUDDHIST STUDIES

- The Buddha was born at:
i. Kapilavastu ii. Nalanda iii. Lumbini iv. Pataliputra
- The first Buddhist Council was patronized by:
i. Bimbisara ii. Ajatashatru iii. Ashoka iv. Chandragupta
- Find the odd man out:
i. Maitri ii. Upeksha iii. Karuna iv. Ahimsa
- Ashoka was the son of:
i. Bindusara ii. Bimbisara iii. Chandragupta iv. None of these
- Nalanda Mahavihara was established by:
i. Kumaragupta ii. Samudragupta iii. Ashoka iv. Devagupta

B.P.Ed

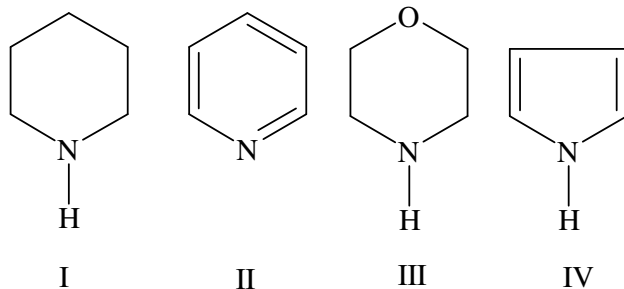
- Dimension of Cricket Boundary from the middle of the Pitch is:
(a) 37 yards (b) 75 yards (c) 65 yards (d) 55 yards
- Bhai Chung Bhutia is associated with:
(a) Hockey (b) Judo (c) Boxing (d) Football
- Term "Koka" is associated with:
(a) Baseball (b) Handball (c) Judo (d) Wrestling
- Duration of Football Match (Men) is:
(a) 110 Minutes (b) 90 Minutes (c) 100 Minutes (d) 120 Minutes
- The term "Wazzari" is associated with:
(a) Judo (b) Kabbadi (c) Wrestling (d) Weight Lifting

CHEMISTRY

1. The compound which gives the most stable carbonium ion on dehydration is

- (a) $(\text{CH}_3)_2\text{CHCH}_2\text{OH}$ (b) $(\text{CH}_3)_3\text{COH}$
 (c) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$ (d) $\text{CH}_3\text{CHOHCH}_2\text{CH}_3$

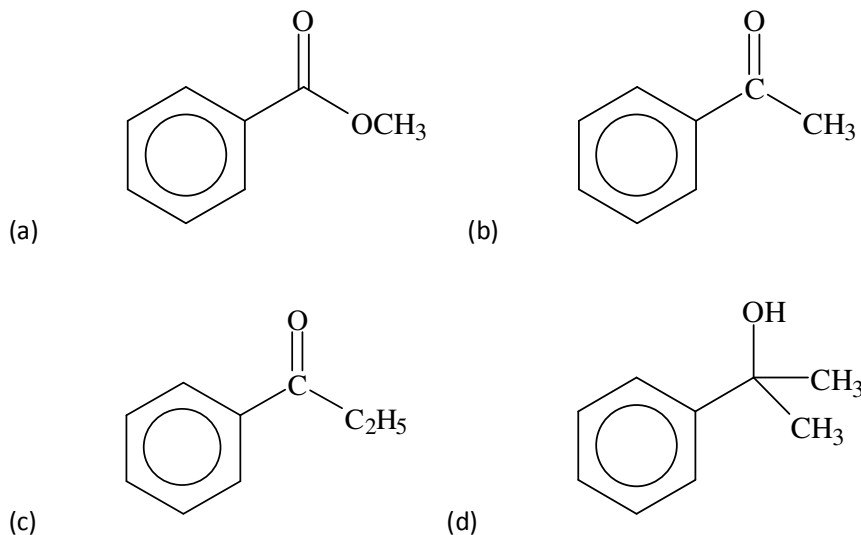
2. In the following compounds



The order of basicity is

- a) $\text{IV} > \text{I} > \text{III} > \text{II}$ b) $\text{III} > \text{I} > \text{IV} > \text{II}$ c) $\text{II} > \text{I} > \text{III} > \text{IV}$ d) $\text{I} > \text{III} > \text{II} > \text{IV}$

3. The product of the reaction of ethyl benzoate with 2 equivalents of methyl magnesium bromide is



4. Consider an endothermic reaction, $X \rightarrow Y$ with activation energies E_b and E_f for backward and forward reactions respectively. In general,

- (a) There is no definite relation between E_b and E_f (b) $E_b = E_f$
 (c) $E_b > E_f$ (d) $E_b < E_f$

5. pH of 0.005 M aqueous solution of sulphuric acid is nearly

- (a) 2.22 (b) 0.125 (c) 2 (d) zero

COMPUTER SCIENCE & IT /M.Sc IT/PGDCA

1. a-bba-bbaab-

- a) aba b) aab c) bab d) bba

2. The expression $ax^2 + bx + c$ has the same sign as of "a" if

- a) $b^2 - 4ac > 0$ b) $b^2 - 4ac = 0$ c) $b^2 - 4ac = 0$ d) "b" and "c" have the same sign as "a"

3. If the diameter of the circle is doubled, the area becomes

- a) Twice b) Thrice c) Four Times d) Eight Times e) None of these

4. Heredity: Training

- a) Cultivated : Acquired b) Natural : Hobby c) Instinct : Habit d) Excuse : Denial

5. In a business, A, B and C invested Rs. 500/-, Rs. 225/- and Rs. 300/- respectively. If the profit earned is Rs.410/- what will be the share of A ?

- a) Rs. 200/- b) Rs. 180/- c) Rs. 120/- d) None of these.

COMMERCE

1. A demand curve which takes the form of a horizontal line parallel to the quantity axis illustrates elasticity which is
a) Zero b) Infinite c) Less than 1 d) 1
2. An agreement enforceable by law is called
a) Voidable contract b) Void agreement c) Valid contract d) Legal agreement
3. The accounting equation is in accord with the fundamental ----- concept of accounting
a) Money measurement b) Going concern c) Realisation d) Dual aspect
4. Which one of the following ratio is the indicator of the long-term solvency of the firm
a) Acid test ratio b) Debt-equity ratio c) Time interest earned ratio d) None of these
5. Vouching implies
a) Inspection of receipts b) Examination of vouchers to check authenticity of records
c) Surprise checking of accounting records d) Examining the various assets

DOGRI

- 1- ^Mksxjk iSaNh* dfork ns jpukdkj u &
A^{1/2} ijekuan vyeLr B^{1/2} fd"ku LeSyiqjh
C^{1/2} jke ukFk 'kkL=h D^{1/2} jke yky 'kekZ
- 2- Mksxjh ns iSg~ys =S miU;kl u&
A^{1/2} /kkjka rs /kwM+ka] 'kkuks rs gkM+]csM+h]iUku B^{1/2} QqYy fcuk Mkyh]
'kkuks] cnlhl
C^{1/2} 'kkuks] /kkjka rs /kwM+ka] cnlhl D^{1/2} gkM+]csM+h]iUku]
'kkuks] dSn~nh
- 3- ^=qV~Vh nh Mksj* miU;kl p fpUkjr okrkoj.k ,s&
A^{1/2} ykSg~ds "kSg~jS nk B^{1/2} xzka,a Fkkg~jsa nk
C^{1/2} egkuxjsa nk D^{1/2} /kkjsa&tkM+sa nk
- 4- ^eu djS mM~Mus xh] rka ch /kjr ij cT>k j*eka] cl] pwfj;ka [kank pyka] ,g~
fexh eatwj usbZaA**ks·j ns "kk;j u &
A^{1/2} f"ko jke ^nhi* B^{1/2} osn iky ^nhi*
C^{1/2} jke ukFk 'kkL=h D^{1/2} y{eh ukjk;.k
- 5- ^drZO;* ,dkadh nk ukVd nk uka· ,s&
A^{1/2} vej B^{1/2} jkts"k C^{1/2} vthr D^{1/2} eq"kh

ECONOMICS

1. The key phrase that characterises the 11th Five Year Plan is
a) globalisation b) industrialization
c) inclusive growth d) capitalism
2. Which of the following does not form part of the Human Development Indicator?
a) Literacy b) Longevity
c) Income d) Environment
3. Equilibrium of an economy need not be at full employment level who said this?
(a) Adam Smith (b) Ricardo
(c) Karl Marx (d) Keynes
4. The Greek work 'FISC' refers to
(a) Private Finance (b) Public Finance
(c) Public Treasury (d) Both Public and Private Finance
5. Which of the following transactions is a debit in the current account of the BOP?
(a) Export of merchandise, (b) export of services,
(c) gift to foreigners, (d) gift from foreigners.

EDUCATION (M.A.)

1. "Educational psychology describes and explain the learning experiences of an individual from birth through old age" This definition is given by
 a) Skinner b) Peel c) Cattell d) Crow and Crow
2. The community can be uplifted with the help of an instrument of
 a) Punishment b) Discipline c) Training d) Education
3. Acceleration, ability grouping and promotion in class is required for
 a) Gifted children b) Mentally retarded Children
 c) Visually impaired d) Delinquent Children
4. National Literacy Mission was launched in the year
 a) 1985 b) 1986 c) 1987 d) 1988
5. Which Veda is the oldest Veda
 a) Sama Veda b) Rig Veda c) Atharva Veda d) Yajurveda

ELECTRONICS

1. Which region of the bipolar transistor is made physically large:
 a) Emitter b) base c) collector d) none of these
2. For better stability of the amplifier circuit, value of stability factor 'S' must be
 a) large b) as small as possible c) 1 d) 0
3. Effect of negative feedback voltage is
 a) An increase in output resistance b) An increase in input resistance
 c) Increase in gain d) decrease in output resistance
4. In an FM signal, there are
 a) No sidebands b) Two sidebands c) Infinite number of sidebands d) None of these
5. What kind of modulation is used for sound portion of commercial broadcast TV transmission
 a. FM b. AM c. DM d. PCM

ENVIRONMENTAL SCIENCES:

- In any ecosystem the green plants are called autotrophs, because
 - they prepare oxygen
 - they prepare food in their body
 - they provide food to animals
 - they utilize simple inorganic substances to prepare their food.
- Tracheids is a conducting tissue and is an element of xylem, the structure is
 - thin walled elongated latex cell
 - parenchymatous cell
 - tube like elongated thin cell
 - elongated tube like dead cell
- Indiscriminate killing of deer in Sunderban area will cause
 - profuse growth of grasses and bushes
 - Scarcity of foods for tigers
 - sever the food chain relating to tigers
 - sever the food chain of crocodile
- The honey bee is a social insect because
 - they do cause some benefit for our society
 - they live in our society
 - they form a society with an administrative head
 - they live together but never depend on others
- Epinephrine is a hormone secreted from the
 - Thyroid gland
 - Adrenal gland
 - Prostrate gland
 - Pancreatic gland

ENGLISH

- Which play of Shakespeare is not a Tragedy
 - Othello
 - King Lear
 - Hamlet
 - The Tempest
- What do the weird sisters promise to Macbeth?
 - The kingdom of Scotland
 - Everlasting life
 - Victory in battle
 - A large family
- What is the last thing the audience of *A Doll's House* hears?
 - A door slamming
 - A gunshot
 - A train whistle
 - A dog barking
- The term Positivism was coined by:-
 - Herbert Spencer
 - J. S. Mill
 - Jeremy Bentham
 - Auguste Comte
- 'Beauty is truth, truth beauty' is taken from Keats' :
 - Ode to a Nightingale
 - Ode on Melancholy
 - Ode to Autumn
 - Ode on a Grecian Urn.

FOOD SCIENCE & TECHNOLOGY

- Radio activity is measured by
 - florimeter
 - calorimeter
 - spectrophotometer
 - Geiger Muller counter
- Main energy giving nutrients are
 - vitamins, minerals & water
 - Fiber, CHO's & fats
 - Fats, carbohydrates & proteins
 - all of the above
- pH value of blood plasma ranges between
 - 7.8-8.0
 - 7.83-8.25
 - 7.35-7.45
 - 8.0-8.35
- The process of stiffening of the meat immediately after the slaughter is called
 - muscle stiffening
 - muscle hardening
 - rigor mortis
 - rigor fortis
- Yoghurt is the preparation with the action of two organisms namely
 - S. thermophilus* & *L. bulgaricus*
 - S. cremoris* & *Leuconostoc citrovorum*
 - S. diacetylactis* & *L. dextranicum*
 - None

GEOGRAPHY

- A science which studies of weather and atmosphere changes is known as_
 - Geology
 - Meteorology
 - Metaphysics
 - Zoology
- The average height of Siwalik is

- a. 1500-2000 mts b. 1000-1500 mts
c. 700-1000 mts d. 3000-5000 mts
3. Which of the following current affects summer monsoon
a. Peru current b. Brazil current
c. Elnino current d. East Australian current
4. Which of the following language recently includes in the constitution of India
a. Dogri b. Telugu
c. Kashmiri d. Naga
5. The discontinuity between Mantle and core is known as
a. Gutenberg discontinuity b. Mohorovicic discontinuity
c. Conard discontinuity d. All the above

GEOLOGY

1. Thermal or regional metamorphism of limestone produces
a) Hornfels b) Quartzite c) Marble d) Carbonatite
2. Kimberlite Diamond deposits is an example of
a) Gravitational accumulation b) Dissemination
c) Immiscible liquid segregation d) Residual liquid injection
3. Nappe is a
a) Reverse fault b) Upfold c) Thrust fold d) Recumbent fold
4. The substance in which the velocity of light of a given wavelength does not vary with direction are called as
a) Amorphous b) Isotropic c) Anisotropic d) Crystalline
5. "Landscape is a function of structure, process and stage", the statement is given by
a) Hutton b) Penck c) Davies d) Playfair

HINDI

1. fdl dfo dks eSfFky dksfdy dgk tkrk gS \
A. vehj [kqljks B- fo|kifr C- ujifr ukYg D- pUnjcjnkbZ
2. i`Fohjkt jklks ds jpf;rk dk uke D;k gS \
A. txfud B. uyflag C. pUnjcjnkbZ D. dqrcCku
3. euksfodkjksa ij vk/kkfjr vkpk;Z jkepUæ 'kqDy dk dkSu&lk fucU/k gS \
A. dfork D;k gS B. rqylhnkl C. tk;lh D. Øks/k
4. ^'kdqUryk;u* esa pj[ks okyh cqf<+;k fdl dk Árhd gS \
A. Ád`fr B. laLd`fr C. fu;fr D. foifYk
5. ^fnYyh* esa ,d ekSr dgkuh esa fdl dh 'ko;k=k fudyrh gS\

A. usrk B. lsB C. eU=h D. ukSdj'kkg

HISTORY

- Which of the following cultures the Harappan civilization belongs to:
a) Chalcolithic culture b) Neolithic culture c) Bronze age culture d) Iron age culture
- Who among the followings minted gold coins in India for the first time?
a) Kushanas b) Indo Greeks c) Satavahanas d) Guptas
- Muhammad Tughluq transferred his capital from Delhi to:
a) Warangal b) Dinanagar c) Devigiri d) Devgarh.
- The founder of Brahma Samaj was:
a) Keshava Chandra Sen b) Raja Ram Mohan Roy c) Devendra Nath Tagore
d) None of these.
- President Wilson of America analyzed his 'Fourteen Points' as basis of world peace in the U.S Congress in:
a) May, 1918 b) May, 1919 c) May, 1920 d) None of these.

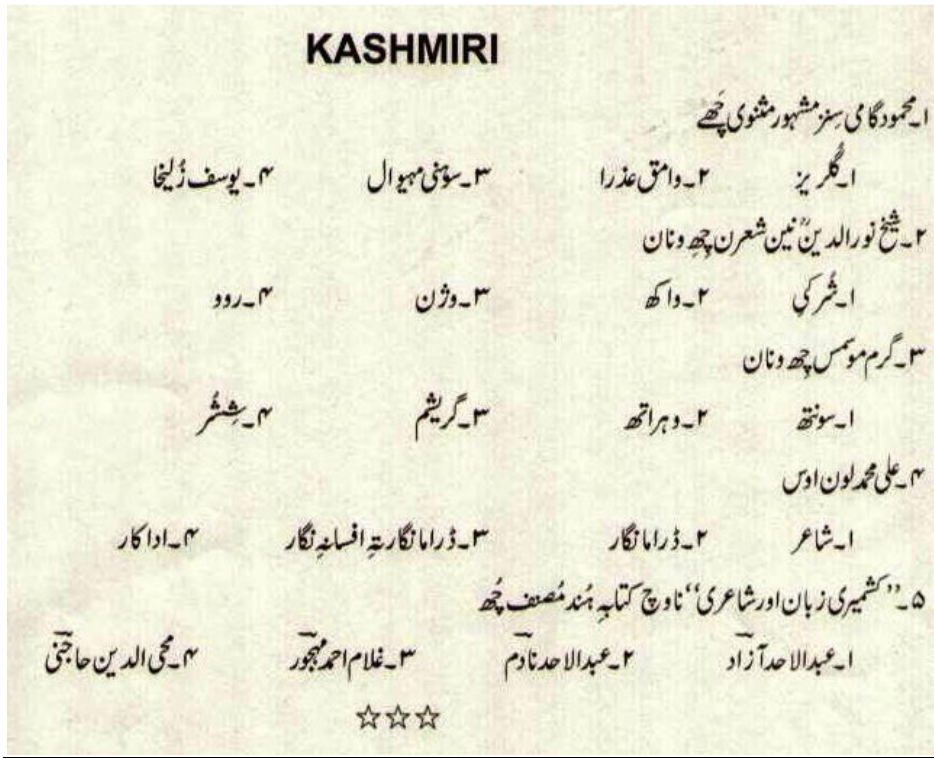
HOME SCIENCE

- It is obtained from the leaves of pineapple plant
a. sisal b. abaca c. pina d. coir
- Pyridoxine, pyridoxal and pyridoxamine are active forms of
a. Vit B 12 b. Vit B 6 c. Vit B 2 d. None of the above
- Measuring actual performance, pinpointing areas of deviation are the processes of
a. supervising b. controlling c. reviewing d. none of the above
- During the decades _____ under British Govt, Home Science was introduced in schools and colleges in India.
a. 1940-60 b. 1930-50 c. 1920-40 d. None of the above
- Philosophy of extension can be expressed as
a. Self help b. Cooperative effort c. Never ending process d. All of the above

HUMAN GENETICS

- The prokaryotic cell lacks
(a) Nuclear envelope & DNA (b) Nuclear envelope & plastids
(c) DNA & mitochondria (d) Cell membrane & nucleus
- Who reported the presence of nucleic acid in Pus cells
(a) Griffith (b) Miescher (c) Avery (d) Hershey & chase
- The "energy currency" of plants & animals is
(a) NADP (b) ATP (c) Chlorophyll (d) Calorie
- Which of the following is the main cellular fuel?
(a) Lactose (b) Galactose (c) Glucose (d) Fructose
- Who discovered the structure or molecular model of DNA
(a) Edle man and Porter (b) Holley, Nirenberg & Khorana
(c) Urey and Miller (d) Watson and cridc

KASHMIRI:

**M.Ed:**

1. The all round development of personality can be achieved through
 - a) Instruction
 - b) Teaching
 - c) Literacy
 - d) Education
2. Community life provides
 - a) Insecurity
 - b) Tension
 - c) Protection
 - d) Slavery
3. The overt behavior is studied with the help of
 - a) Observation
 - b) Introspection
 - c) Experimental Method
 - d) None of the above
4. Creativity as an objective has been introduced in
 - a) RCEM approach
 - b) Bloom's Taxonom
 - c) Herbartian approach
 - d) Robert Mager's approach
5. The role of NCERT is to look into
 - a) School Education
 - b) College Education
 - c) University Education
 - d) All the above

M.Lib.I.Sc

1. Accession Number in AACR-2 is written
 - a) Along with call number
 - b) At the fourth horizontal line from above
 - c) In the first line
 - d) It is not written at all
1. Which is the third Law of Library Science
 - a) Every book its reader
 - b) Every reader his/her book
 - c) Save the time of reader
 - d) Books are for use
2. SOUL Stands for
 - a. Software Organizing University Librarianship
 - b) Software of University Libraries
 - c) Software Organizing University Libraries
 - d) Software of Unique Librarianship
3. World of Learning is :
 - (a) A Bibliography
 - (b) An Abstract
 - (c) An Encyclopedia
 - (d) A Directory
5. WIPO stands for
 - (a) World Information and Patent Organization
 - (b) World Intellectual Property Organization
 - (c) World International Property Organization
 - (d) World Information Protection Organization

M.P.Ed**1. Points are awarded in which game?**

- (a) Kho-Kho (b) Kabbadi (c) Basketball (d) Tennis

2. Which is rich source of Vitamin C?

- (a) Milk (b) Eggs (c) Citrus Fruits (d) Green vegetables

3. Which is our National Game:

- (a) Kabbadi (b) Cricket (c) Football (d) Hockey

4. Dhan Raj Pillae is associated with:

- (a) Athletic (b) Basketball (c) Hockey (d) Football

5. The Length of Cricket Pitch is:

- (a) 22 Yards (b) 23 Yards (c) 25 Yards (d) 27 Yards

MATHEMATICS**1. The double point of the curve $2x^6 - 27x^4 - 81y^2 = 0$ is**

- a) (3,0) b) (-3,0) c) (0,0) d) (3,3)

2. Let $A = \{1,2,3\}$ and $R = \{(1,1), (1,2), (2,1), 2,2\}$. Then R is a relation which is

- a) Symmetric but neither reflexive nor transitive
 b) symmetric and transitive but not reflexive
 c) symmetric and reflexive but not transitive d) none of the above

3. Which of the following is not a subgroup of the group of all real numbers under addition

- a) the set of all rational numbers b) the set of integers
 c) the set of even integers d) the set of even integers

4. Variance of the Binomial distribution is

- a) npq b) np + q c) nq + p d) np/q

5. Let A and B be 2×2 matrices of the complex numbers. Which of the following is false

- a) $A^{**} = A$ b) $(A+B)^* = A^* + B^*$ c) $(AB)^* = A^*B^*$ d) $(\alpha A)^* = \alpha A^*$

MICROBIOLOGY**1. Which of the following procedures can be used to isolate a pure culture of a bacterium from a mixture?**

- a) streak plating b) dilution plating c) enrichment culture d) All the above

2. Single cell protein refers to

- a) Use of microbes as food /feed b) Protein rich in essential amino acids
 c) Protein which is made of single cell d) None of the above

3. In proteins, elements of secondary structure combine to form a(n)

- a) domain b) motif c) alpha helix d) beta sheet e) chaperone

4. What is the limitation of Ti plasmid

- a) Cannot be used for broad leaved plants b) Cannot be used for fruit bearing plants
 c) Cannot transmit prokaryotic genes d) Does not infect cereals

5. Which of the following molecules transfers the information from nucleus to cytoplasm?

- a) DNA b) mRNA c) tRNA d) Protein

MUSIC**1. Which of the following is the seasonal raga?**

- a) bhopali b) darbari c) deskar d) miyan malhar

2. Which taal is played with sadra gayaki?

- a) jhap taal b) ek taal c) roopak taal d) sool taal
3. Which one the following pair of taals is a 16 matra pair?
 a) tilwara-teentaal b) char taal-jhaptal c) teentaal-rupaktaal d) soortaal-teentaal
4. Which year was Pt. Vishnu Narayan Baluskar born in?
 a) 1875 b) 1878 c) 1872 d) 1871
5. How many categories have Indian instruments been divided into?
 a) 4 b) 3 c) 2 d) 5

PHYSICS

1. Volume element in spherical polar coordinates is given by :
 (a) $r^2 dr \sin\theta d\theta$ (b) $r^2 dr \sin^2\theta d\theta d\phi$
 (c) $r^2 dr \sin\theta d\theta d\phi$ (d) $r^2 dr \sin^2\theta d\theta d\phi$
2. The Laplace equation is
 (a) $\Delta^2 V = -\rho/\epsilon_0$ (b) $\Delta^2 V = -4Z\rho$
 (c) $\Delta^2 V = -4Z\sigma$ (d) $\Delta^2 V = 0$
3. In Young's double slit experiment, a maximum is obtained when the path difference between the interfering waves is :
 (a) $n\lambda / 2$ (b) $n\lambda$
 (c) $(2n+1)\lambda / 2$ (d) None of the above
4. In case of a potential step of height V_0 , if a particle of energy $E < V_0$, the transmittance is :
 (a) zero (b) finite non-zero (c) infinite (d) 1
5. A plane cuts intercepts 3a, 2b, 4c. The Miller indices of this plane are :
 (a) (3 2 4) (b) (4 6 3) (c) (6 4 8) (d) None of the above

POLITICAL SCIENCE

1. International Politics is the study of :
 a) states and their relations b) regional and international organizations
 c) nongovernmental organizations and non-state actors d) all the above
2. One of the following cannot be identified with old/classical diplomacy:
 a) open and democratic b) secret and confidential
 c) European oriented d) trained and professional diplomats
3. The 'systems' approach to study politics is given by:
 a) David Easton b) Almond c) Deutsch d) none of the above
4. Who is a known behaviouralist among the following political scientists?
 a) Headley Bull b) David Easton c) Talcot Parsons d) Wright Mills
5. Who is regarded the father of Political Science?
 a) Plato b) Aristotle c) Machiavelli d) none of the above

PSYCHOLOGY

1. First research laboratory in Psychology was established to study
 a. Consciousness b. Unconsciousness c. Perceptual process d. Collective unconscious
2. The type of research determines the strength of a relationship between the variables
 a. Experiment b. Survey c. Quasi experiment d. Correlational study
3. Choose the strongest correlational coefficient
 a. +.75 b. -.99 c. +.01 d. -.01
4. Which of the following theories is most concerned with explaining the consistency of behaviour

- a. Freudian theory b. Humanistic theory c. Trait Theory d. Cognitive Theory
5. Aron Beck Cognitive theory focuses on
- a. Dream interpretation b. Conditioning c. Negative schema d. None of the above

PUNJABI

- (A) irAwsqI swihq dy pRSMg ivc :
- (i) irAwsqI swihq dy moFI swihqkwr dw inrnw[
 - (ii) irAwsqI pMjwbI kivqw dw pRwrMB qy ivkws[
 - (iii) irAwsq jMmU-kSmIr ivc pMjwbI BwSw qy swihq dI siQ~qI Aqy drpyS sm~isAwwW[
- (B) pwT pusqk : ic~tw lhU (nwl) lyKk : nwnk isMG
- (i) nwl dI sm~isAw Aqy ausdw Awlocnwqmk AiDAYn[
 - (ii) nwl dw ivSw Aqy AwDuink Xug ivc pRSMigkqw[
 - (iii) nwiek, nwiekw Aqy hor pwqrW dw cirqr Aqy nwl dy pRSMg ivc BUimkw[
 - (iv) nwl dI swihqk p`KW/q`qW qo Awlocnw[
 - (v) nwl dy AwDwr qy nwnk isMG dI nwl klw dy gux[
 - (vi) nwnk isMG dI pMjwbI nwl nUM dyx[
- (C) pwT pusqk : rsIdI itkt (svY-jIvnI) lyKkw : AMimRqw pRIqm
- (i) AwDuink vwrqk rUp svY-jIvnI dI bxqr Aqy q~qW dw ivvycn
 - (ii) rsIdI itkt dyy AwDwr qy dso ik AMimRqw pRIqm iek s&l svY-jIvnIkwr hY[
 - (iii) svY-jIvnI dI pirBwSw AMikq kr dy hoey, rsIdI itkt nUM svY-jIvnI rUp 'c prKo[
 - (iv) rsIdI itkt ivclI ik sy iek Gtnw dw vrxn kro[
 - (v) rsIdI itkt dy AwDwr qy AMimRqw pRIqm dI vwrqk klw bwry ilKo[
 - (vi) rsIdI itkt ivc XdwW, pRSMgk vyrivAW Aqy SKsIAqW dw vrxn qy ivSlySx[
 - (vii) AMimRqw pRIqm dw svY-jIvnI swihq iv~c sQwn inSicq kro[
- (D) pMjwbI swihq dw ieiqhws
- (i) pMjwbI swihq dy AwrMB nwl juVy mu~K p~K Aqy pRQm pMjwbI swihq bwry inrnw
 - (ii) gurU nwnk kwl dIAW pRmu~K swihq DwrwvW - gurmiq, sU&I, ik~sw bIr rsI Aqy vwrqk (jnm swKI prMprw)
 - (iii) &rId bwxI, gurU gRMQ swihb (swihqk Aqy smwj k mh~qv), BweI gurdws dIAW vwrW, cMfI dI vwr, hIr dmodr, imrzw swihbW pIlU, Sw hUsYn qy sulqwn bwhU dI sU&I dyx, pRmu~K pwRpqIAW, swihqk mh~qv qy dyx[

REMOTE SENSING & GIS

1. Which of the following is not a wind instrument
 - a) Flute b) Nadaswaram c) Rabab d) Shehnai
2. Geophysics deals with
 - a) History of the earth. b) Physics of the earth
 - c) Searching the causes of the Physics calamity on the d) All the above
3. In each of the following questions, a word is given followed by four other words marked a,b,c and d one of which is nearest in meaning with the given word.

SAGACIOUS

 - a) Multigenerous b) Chackle c) Secession d) Exude
4. Successive discounts of 10%, 12% and 15% amount to a single discount of
 - a) 35.28% b) 37% c) 36.68 % d) None of these
5. The following questions contain a problem followed by two statements marked as (i) and (ii). Your task is to find out whether the statements are sufficient to solve the problem. Indicate your answer as:
 - a) if you can get the answer on the basis of (i) alone but not from (ii) alone
 - b) if you can get the answer on the basis of (ii) alone but not from (i) alone
 - c) if you can get the answer from (i) and (ii) together, but neither statement by itself suffices
 - d) if statements (i) alone and statement (ii) alone suffices
 - e) if you cannot get the answer from statements (i) and (ii) some extra information required.

What is $A+B+C$?

(i) $A+B=4$

(ii) $B+C=3$

laLÑr

- 1- osnkk^{3~}xksa dh la[;k gS&
 $\frac{1}{4}v^{\frac{1}{2}}$ 4 $\frac{1}{4}c^{\frac{1}{2}}$ 5 $\frac{1}{4}l^{\frac{1}{2}}$ 6 $\frac{1}{4}n^{\frac{1}{2}}$ 7
- 2- mYkjjkepfjr esa eq[; jl gS&
 $\frac{1}{4}v^{\frac{1}{2}}$ Ük`^{3~}xkj $\frac{1}{4}c^{\frac{1}{2}}$ ohj $\frac{1}{4}l^{\frac{1}{2}}$ d#.k $\frac{1}{4}n^{\frac{1}{2}}$ jkSnz
- 3- ^v* dk mPpkj.k LFkku gS&
 $\frac{1}{4}v^{\frac{1}{2}}$ d.B $\frac{1}{4}c^{\frac{1}{2}}$ rkyq $\frac{1}{4}l^{\frac{1}{2}}$ ew/kkZ $\frac{1}{4}n^{\frac{1}{2}}$ vks"B
- 4- fo'oukFk ds vuqlkj dkO; dh vkRek gS&
 $\frac{1}{4}v^{\frac{1}{2}}$ jl $\frac{1}{4}c^{\frac{1}{2}}$ jhfr $\frac{1}{4}l^{\frac{1}{2}}$ xq.k $\frac{1}{4}n^{\frac{1}{2}}$ /ofu
- 5- xhrk ds ys[kd gSa&
 $\frac{1}{4}v^{\frac{1}{2}}$ okYehfd $\frac{1}{4}c^{\frac{1}{2}}$ O;kl $\frac{1}{4}l^{\frac{1}{2}}$ dkfynkl $\frac{1}{4}n^{\frac{1}{2}}$ HkoHkwfr

SOCIOLOGY

1. Who among the following is of the view that sociology is a science that attempts an interpretative understanding of social action?
 (a) Auguste Comte (b) Emile Durkheim (c) Max Weber (d) Karl Marx
2. Among the following who has used the concept of 'Organic Analogy'.
 (a) Herbert Spencer (b) Emile Durkheim
 (c) Levi-Strauss (d) Radcliffe- Brown
3. Which of the following is not a type of research design?
 (a) Exploratory (b) Content Analysis (c) Descriptive (d) Experimental
4. Match the following and tick the correct answer in the given Code.

List I (Studies on Family)	List II (Authors)
(A) Household Dimension of the Family	(i) M.S. Gore
(B) Some Aspects of Family in Mahuva	(ii) A. M. Shah
(C) Family and Kinship among Pandits of Rural Kashmir	(iii) I.P. Desai
(D) Urbanization and Family	(iv) T. N. Madan
5. The process by which a caste adopts the habits, customs and rituals of a higher caste is known as :
 (a) Imitation (b) Identification (c) Acculturation (d) Sanskritisation

STATISTICS

1. Weighted mean of first 'n' natural numbers with weights as the corresponding numbers is
 a) $\frac{n(n+1)}{2}$ b) $\frac{(n+1)}{2}$ c) $2n+1$ d) $\frac{(n+1)(2n+1)}{6}$
2. In a single throw with two dice the number whose probability is minimum is
 a) 12 b) 11 c) 10 d) 9
3. Which of the following are true statements about sampling ?
 a) Careful analysis of a given sample will indicate wheather or not it is a random .
 b) Sampling error implies an error , possibly very small but still an error , on the part of the surveyor .
 c) Data obtained while conducting a census are always more accurate than data obtained from a sample, no matter how careful the design off the sample
 a) I only b) II only c) III only d) None of these
4. Which one of the following is true

- a) $\text{Var}(\bar{y}_{st})_R \geq \text{var}(\bar{y}_{st})_{Ney} \geq \text{Var}(\bar{y}_{st})_{prop}$
 b) $\text{Var}(\bar{y}_{st})_R \leq \text{var}(\bar{y}_{st})_{Ney} \leq \text{Var}(\bar{y}_{st})_{prop}$
 c) $\text{Var}(\bar{y}_{st})_R \geq \text{var}(\bar{y}_{st})_{prop} \geq \text{Var}(\bar{y}_{st})_{prop}$
 d) $\text{Var}(\bar{y}_{st})_R \leq \text{var}(\bar{y}_{st})_{Ney} \leq \text{Var}(\bar{y}_{st})_{prop}$

5. Components of Time Series are
 (a) Trend, Seasonal and random Components
 (b) Trend, Cyclical and Seasonal Components
 (c) Trend, Irregular, Seasonal and Cyclical Components
 (d) Trend Non-random, Cyclical and Unseasonal Components

URDU

- 1 ایک شعر میں کتنے مصرعے ہوتے ہیں؟
 (a) آٹھ (b) چھ (c) چار (d) دو
- 2 منشی پریم چند کا اصلی نام کیا تھا؟
 (a) دھرت رائے (b) بھگوان سہاے (c) بلونت رائے (d) رگھوپتی سہاے
- 3 مادھو اور گھیسو پریم چند کے کس افسانے کے کردار ہیں؟
 (a) سوز و گم (b) نجات (c) زاویراہ (d) کفن
- 4 غالب کے مجموعہ کلام کا نام کیا ہے؟
 (a) کلیات غالب (b) خطوط غالب (c) دیوان غالب (d) رقعات غالب
- 5 تعصب کس کا انشائیہ ہے؟
 (a) مولوی نذیر احمد (b) سر سید احمد خان (c) خواجہ حسن نظامی (d) رشید احمد صدیقی

ZOOLOGY

1. *Trypanosoma gambiense* is found in
 (a) Large intestine (b) Liver (c) Blood (d) Blood and cerebrospinal fluid
2. Aristotle's lantern occurs in
 (a) Echinoidea (b) Ophiuroidea (c) Asteroidea (d) Holothuroidea
3. The following are called "suicidal bags"
 (a) centrosomes (b) lysosomes (c) microsomes (d) mesosomes
4. Vertebrate kidney develops from
 (a) nephrostome (b) endoderm (c) nephron (d) mesoderm
5. Suckers in *Taenia solium* are the organs for
 (a) reproduction (b) respiration (c) adhesion (d) digestion

B.L.I.Sc

1. The meaning of sine quo non is
 a) An Indispensable action b) Calculations c) Non-existent d) Crime
2. What does idiom "Come round" means:
 a) Suffer b) Attack c) Agree, recover d) Obstacle
3. Zoological name of Man is:
 a) Macaca mulatta b) Homo-sapiens c) Hemdatylus d) Naja-Naja
4. Karl Marx is the author of:
 a) Essays on Population b) Principles of Political Economy

- c) General Theory of Employment, Interest, and Money d) Das Kapital
 5. Information is :
 a) Raw data b) Processed data c) Unorganized data d) None of these

LLB (Professional) 3 Years

- The UNO was founded at:
 a) Paris b) Moscow c) London d) San Francisco
- A contract which could be avoided by one of the parties in the contract at his option is:
 a) Void Agreement b) Voidable Contract c) Illegal Agreement d) None of the above
- International Court of Justice has its seat at:
 a) Geneva b) Hague c) New Yourk d) London
- A Supreme Court Judge retires at the age of:
 a) 58 years b) 60 years c) 62 years d) 65 years
- Write synonyms:
 Condone
 a) Pardon b) Condole c) Punish d) Confer

PGDBM

- The main point from the author's view is that
 A. Man's soul and spirit can not be destroyed by superpowers.
 B. Man's destiny is not fully clear or visible.
 C. Man's soul and spirit are immortal.
 D. Man's safety is assured by the delicate balance of power in terms of nuclear weapons.
 E. Human society will survive despite the serious threat of total annihilation.
- Put this medicine on your arm and rub it into your skin until it's invisible. It will **inhibit** the infection's attempt to spread. What does "inhibit" mean?
 a. live in a certain place b. block or slow down
 c. itch or burn d. help to do something important
- If the concentration of petrol in the second tank is 75% and the cost price of kerosene is half that of petrol, then what is Govind Lal's net profit percentage on selling the contents of the second tank given that he claims to sell the petrol at a profit of 25%?
 a: 42 6/7% b: 66 2/3% c: 83 1/3%
 d: 100% e: 20%
- How much interest will Rs. 10,000 earn in 9 months at an annual rate of 6%?
 (a) 450 (b) 500 (c) 475 (d) 600
- If JAPAN is coded KCSES, then the code for CASTLE will be ____.
 (a) DIJOBT (b) DJKRDP (c) DKMSGR d) DCVXQK

PG HUMAN RIGHTS & DUTIES EDUCATION:

- Many Countries have abolished _____ punishment for the crime of murder.
 a) Capital b) Corporal c) Mortal d) Ultimate
- A Supreme Court Judge retires at the age of:
 a) 58 years b) 60 years c) 62 years d) 65 years
- The UNO was founded at:
 a) Paris b) Moscow c) London d) San Francisco
- International Court of Justice has its seat at:
 a) Geneva b) Hague c) New Yourk d) London
- The international Monetray fund came into existence with:
 a) Berlin Conference b) London Conference c) Bretton Woods Conference d) Rome Conference

ACADEMIC CALENDAR
FOR THE ACADEMIC SESSION 2012-2013

Commencement of Admission Process after the declaration of result of JUET-	2nd week of June, 2012.
The University re-opens after the Summer Break	2 nd of July, 2012.
Commencement of Teaching of 3 rd and 5 th semester, as the case may be	2 nd of July, 2012.
Commencement of Teaching of 1st Semester	9 th of July, 2012.
Completion of Admission Process (including Transfer Cases)	27 th of July, 2012.
Assessment Test/Assignment (1 st Internal)	17 th of September, 2012.
Assessment Test/Assignment (2 nd Internal)	Latest by 15 th of October, 2012.
Diwali Break	12 th of November, 2012 to 17 th of November, 2012.
Termination of Teaching of 1 st , 3 rd and 5 th Semester Courses as the case may be	26 th of November, 2012.
Submission of Internal Assessment Record of 1 st , 3 rd and 5 th Semester as the case may be to the Controller of Examinations	26 th of November, 2012.
Preparatory Holidays for Students	22 nd of November, 2012 to 2 nd of December
Termination of 1 st , 3 rd and 5 th Semester Examinations	Latest by 21 st of December, 2012.
Winter Break	24 th of December, 2012 to 4 th of January 2013.
Commencement of Teaching of 2 nd , 4 th and 6 th Semester Courses	Immediately after the termination of 1 st , 3 rd , and 5 th Semester Examinations & after Winter Break on 1 st of January, 2013.
Assessment Test/Assignment (1 st Internal)	Latest by 28 th February, 2013.
Holi Break	March, 2013 (5Days) starting two days before Holi.
Assessment Test/Assignment (2 nd Internal)	Latest by 30 th of March, 2013.
Termination of Teaching of 2 nd , 4 th and 6 th Semester Courses as the case may be	Latest by 26 th April, 2013.
Preparatory Holidays for Students	29 th of April, 2013 to 10 th of May, 2013.
Completion of Examinations of 2 nd , 4 th and 6 th Semester as the case may be	Before May 31 st , 2013.
Submission of Internal Assessment Record of 2 nd , 4 th and 6 th Semester as the case may be to the Controller of Examinations	Latest by 10 th of May, 2013.
Summer Vacations	13 th of May, 2013 to 28 th of June, 2013.