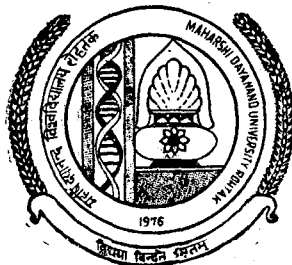


Maharshi Dayanand University Rohtak



Ordinances, Syllabus and Courses of Reading for B.A. (Hons.) Geography Examination

Session—1999-2000

Available from :

Deputy Registrar (Publication)
Maharshi Dayanand University
Rohtak-124 001 (Haryana)

Price :

At the Counter : Rs. 50/-
By Regd. Parcel : Rs. 75/-
By Ordinary Post : Rs. 60/-

ORDINANCE : B.A./B.SC./B.COM.(HONOURS) EXAMINATION

1. The Bachelor of Arts(Hons.), the Bachelor of Science (Hons.) and the Bachelor of Commerce (Hons.) Examinations shall be in three parts. Part-I Examination shall be held at the end of the first year Part-II Examination at the end of the second year and Part-III Examination at the end of the third year.

The Examinations in Part-I,II & III shall be held once a year, ordinarily in the month of April/May, on such dates as may be fixed by the Vice-Chancellor.

A supplementary Examination for those who are to re-appear in one or more subsidiary or/and qualifying subject in Part-III shall be held ordinarily in the month of September/October of the same year on a date to be fixed by the Vice-Chancellor.

- 2.(a) No one shall be eligible to join the first year (Part-I) class of B.A./B.Sc./B.Com. (Hons.) Course unless he/she has passed (a) Senior Secondary Certificate (10+2) Examination of Haryana Board of School Education, Bhiwani or (b) B.A./B.Sc./B.Com./B.Sc. (Home Science) Part-I Examination, as the case may be under old scheme of this University; or (c) any other Examination recognised by this University as equivalent to (a) or (b) above, obtaining :-
 - i) For admission to B.A. (Hons.) 50% marks in aggregate or 50% marks in the subject of Hons. course.
 - ii) For B.Sc. (Hons.) 60% marks in aggregate and 65% marks in the subjects of Hons. Course.
 - iii) For B.Com. (Hons.) 55% marks in aggregate or 55% marks in the subject of Hons.Course.
- b) No one shall be eligible to join the 2nd year (Part-II),class of the B.A./B.Sc./B.Com. (Hons.) course unless he has passed First year (Part-I) Exam.of the B.A./B.Sc./B.Com. (Hons.) under new scheme of this University.

- c) No one shall be eligible to join the third year (Part-III), class of the B.A./B.Sc./B.Com. (Hons.) Course of this University, unless he had passed 2nd year (Part-II) Exam. (Hons.) under new scheme of this University.
- d) A regular candidate of a Department/College admitted to the privileges of this University in the subject of B.A./B.Sc./B.Com. (Hons.) can attend the course of subsidiary and qualifying subjects in other College/Deptt. in case there is no arrangement to teach these subjects in the College/Deptt. where he has taken admission for his main subjects of Hons. Course. The Principal/Head of the College/Deptt. where a student is attending subsidiary and qualifying subjects shall certify that the said student has completed the prescribed number of lectures etc.

3. The Examination in Part-I/Part-II/Part-III shall be open to person.

A. Who has passed not less than one academic year previously the requisite Examination as laid down in Clause-2 above.

B. i) who has been on the rolls of a University Teaching Deptt./College admitted to the privileges of this University throughout the academic year preceding the Examination.

ii) Whose name is submitted to the Registrar/Controller of Examinations by the Head of the Department/Principal of College he has last attended provided that the Head of the Department/Principal of the College certified that the candidate has :

a) attended not less than 75% of the full courses delivered to his class in each subject offered by him and 75% of the periods assigned to practical work in each Science subject.

(Lectures and Practical work shall be counted upto 21 days before the commencement of the Examination).

b) satisfactorily performed the work of his class; and

- c) Obtained not less than 25% marks in the aggregate of all the subject(s) paper(s) of the result of half yearly house examination held in November/December with 100 marks in each subject.
4. a) A student who is unable to appear in the Annual Examination due to shortage of attendance and has complied with the requirements of Clause-3 (b) (ii) (c) may be exempted from this requirement when he appears in the Examination in the following year or thereafter, after making up the deficiency in lectures.
- b) A student who has completed the required percentage of Lectures and practicals may be permitted to appear in the Examination in the same year or the following year as an ex-student even if as a regular student he did not comply with the requirements of Clause-3 (b) (ii) (c).
- i) For promotion from B.A./B.Sc./B.Com.(Hons). Part-I to Part-II a candidate shall be required to clear 50% of theory papers atleast one theory papers of the main subject and from part-II to Part-III he shall have to clear atleast 50% of the theory paper of the main subject of Part-I, and Part-II taken together. While calculating 50% papers fraction may be ignored. For Example, if the number of papers is 5 the candidate will be required to clear atleast two papers. A student will be considered to have cleared Honours Paper(s) if he obtains atleast 40% marks in that/ those paper(s).

Provided that a student joining Honours in the 2nd year may be allowed to clear the first year. Honours paper either in second year or in second and third year together.

- ii) For promotion from Part-II to Part-III; a student shall be required to clear all the subsidiary/qualifying subjects of Part-I of the Honours Course even if such a subject is studied in 2nd year in terms of Clause-2 (b) (ii).

5. a) A student after passing B.A./B.Sc./B.Com.(Hons.) Part-I Examination may be permitted to change over to the B.A./B.Sc./B.Com. Part-II Course within one month of the start of admission to this course provided that the Principal of the College/Head of Department where he is studying, is satisfied that the student will be able to carry on with the new course.

Provided a student after passing B.Sc./B.Com. (Hons.) Part-I Examination shall have to appear in the subject of English of B.A. Part-I alongwith B.A. Part-II Examination, unless he has already qualified in this subject.

- b) A student who joins B.A. Part-II class may be allowed to change one or more of his elective subjects within one month of his joining B.A. Part-II Class.
- c) A candidate appearing in B.A. Part-II Privately may offer elective subjects other than taken by him for B.A. (Hons.) Part-I Examination.
6. The amount of admission fee shall be as under :-

Name of Examination	Regular students	Ex-students
1. B.A.(Hons.) I,II &III	100/-	110/-
2. B.Sc.(Hons.) I,II &III	120/-	130/-
3. B.Com.(Hons.) I,II &III	100/-	110/-

Plus Rs.10/- per practical subject for B.A./B.Sc./B.Com.(Pass & Hons.)

7. A candidate shall submit his admission application to the Registrar/Controller of Examinations on the prescribed form with the required certificates signed by the Head of the University Teaching Department/Principal of the college, the candidate has last attended, both in the case of students of University Teaching Departments/College admitted to the privileges of the University and ex-student.

8. i) The medium of instruction shall be:-

- (a) Hindi in case of Hindi
- (b) English in case of English, Physics, Chemistry and Maths;
- (c) English/Hindi or Sanskrit in case of Sanskrit
- (d) English/Hindi in case of other subjects.

ii) The question papers will be set:

- (a) in Hindi in case of Hindi
- (b) in English in case of English, Physics, Chemistry and Maths:
- (c) in English and Hindi in case of Sanskrit.
- (d) English/Hindi in case of other subjects.

iii) The candidates shall write their answers:

- (a) in Hindi in case of Hindi.
- (b) in Hindi or English or Sanskrit in case of Sanskrit.
- (c) in English in case of English, Physics, Chemistry and Mathematics; and
- (d) in English or Hindi in case of other subjects.

9. The minimum number of marks required to pass shall be as under:-

- i) Main subject (Honours) 40% marks in the aggregate and 35% in each papers (written and practical separately).
- ii) Qualifying and subsidiary subjects: 35% marks in each for qualifying and subsidiary subjects (written and practical separately)

10.i) A candidate who fails in one or more qualifying/subsidiary subjects(s) may be admitted to the supplementary exam. held in the same year and/or at the next annual Examination in the subjects(s) and if he passes in it he shall be deemed to have passed the examination.

A candidate who fails in one or more paper(s) of main subjects of Hons. Part-I/Part-II may be allowed on the recommendation of the Principal of the college/Head of the Deptt. concerned to appear/re-appear in the Examination in the papers(s)-as an ex-student, without attending a fresh course of instructions within the period permissible to him to clear the papers of Hons. Part-III under clause-12.

ii) A candidate who fails in an Examination or having been eligible fails to appear in an Examination, shall take the Examination as an ex-student according to the syllabus prescribed by the University for regular students appearing for the Examination provided that the syllabus for the candidates who are to re-appear in the Supplementary Examination to be held in September shall be the same as was in force for the regular student in the last Annual Examination.

11. A candidate who has completed the prescribed course of instruction in a recognised College/University Department for B.A./B.Sc./B.Com.(Hons.) Part-III Examination but does not appear in it or having appeared fails, may be allowed on the recommendation of the Principal of the College/Head of the University Deptt. concerned, two consecutive chances as an ex-student to appear/re-appear in the subject(s)/paper(s), as the case may be without attending a fresh course of instruction. While re-appearing in the Examination, the candidate shall be exempted from re-appearing in paper(s) and or practical(s) in which he has obtained atleast 40 marks.

Provided that the candidate who does not pass the B.A./B.Sc./B.Com.(Hons.) Examination with the two consecutive chances as an ex-student, may be awarded B.A./B.Sc./B.Com.(Pass) Degree without division, if he obtains atleast 35% marks in each qualifying/subsidiary subject, theory and practical separately and in each paper of the main(Honours) subject, theory and practical separately. Provided further that if he does not satisfy the conditions for the award of pass Degree without division as mentioned

above, he shall be declared to have failed in the Examination and shall be required to appear in the Examination de novo, after attending the College/Department as a regular student.

12. The successful candidates of B.A./B.Sc./B.Com.(Hons.) Examination who obtain 60% marks or more in the aggregate of the main subject shall be placed in the first Division, those who obtain less than 60% marks but not less than 50% marks in the Second Division and those who obtain less than 50% marks in the Third Division. For the purpose of determining division at the end of Honours Part-III Examination the marks obtained by the candidate in the Hons. subject only at the Honours Part-I, Part-II and III Examination shall be taken in to account:

However the marks obtained in qualifying subjects and subsidiary subjects will be shown in the result card.

13. Six weeks after the termination of the Examination or as soon as thereafter as is possible, the Registrar/Controller of Examinations shall publish a list of the candidates who have passed the examination. Each successful candidate of B.A./B.Sc./B.Com.(Hons.) Examination shall receive a Degree stating the division he obtains.

14. A candidate:

- i). Who has passed B.A./B.Sc./B.Com.(Hons.) Examination of this University or ;
- ii) Who resides within the territorial jurisdiction of the University and has passed an Examination declared equivalent to the B.A./B.Sc./B.Com.(Hons.) Examination of this University may appear in a subsequent B.A./B.Sc./B.Com. subsidiary Examination in one or more subjects prescribed for the Examination except the subject in which he has passed the Examination.

A candidate appearing under this Clause shall sit for Part-I and Part-II Examination simultaneously and shall pay admission fee of as prescribed for to the whole examination and additional fee of Rs. 10/- per Science subject Provided that if

the candidate is appearing in a Science subject, he shall study in a College admitted to the privileges of this University for both Part-I and Part-II classes for atleast one academic year preceding the Examination.

The minimum percentage of marks required to pass in each subject shall be as given in Clause-9 above.

15. The candidates who have passed the B.A./B.Sc./B.Com.(Hons.) Examination in the second or third division be allowed to re-appear in one or more subject(s) (Theory papers only) of main subjects of the Part-I,II and Part-III Examination for improvement of division.

The candidates may also be allowed to improve their score of marks upto 45% in the same manner. However for improvement of division from III to II and to I as well as improvement of score of marks upto 45% only one chance shall be allowed.

Only two consecutive chances will be allowed for improvement. A candidate re-appearing in one or more subject(s)/paper(s) for the purpose of passing/improvement of division shall pay fee as for the whole examination.

The higher score in the paper(s)/subject(s) in which he re-appears for improvement will be taken into account towards the final result and the marks already obtained by the candidate in the paper(s)/subject(s) in which he has not opted to improve his result shall be carried forwarded. In case the candidate does not improve the division his result shall be declared as, Previous Result Stands.

16. Notwithstanding the integrated nature of this course which spread over than one academic year, the Ordinance in force at the time a student join the course shall hold good only for the Examination held during or at the end of the academic year and nothing in this Ordinance shall be deemed to debar the University, from amending the Ordinance and the amended Ordinance, if any shall apply to all students, whether old or new.

SCHEME OF EXAMINATION FOR B.A. (HONOURS)

Subject	Ist Year		IInd Year		IIIrd Year	
	Main	qualifying/ Subsidiary	Main	Subsidiary	Main	Subsidiary
1. English	2	1+1	3	1	3	1
2. Hindi	2	1+1	3	1	3	1
3. Sanskrit	2	1+1	3	1	3	1
4. History	2	1+1	3	1	3	1
5. Pol. Sc.	2	1+1	3	1	3	1
6. Economics	2	1+1	3	1	3	1
7. Psychology	3+1*	1+1	3+1*	1	3+1*	1
8. Geography	2	1+1	2+1*	1	2+1*	1
9. Sociology	2	1+1	2	1	4	1
10. Defence Studies	3	1+1	3+1*	1	3+1*	1
11. Public Adminis- tration	2	1+1*	3	1	3	1
12. Ancient Indian History Culture & Archaeology	2	1+1	3	1	3	1

Qualifying Subjects

1. English
2. Hindi
3. Sanskrit
4. Panjabi
5. Urdu

Subsidiary Subjects

Any one allied subject from the following :—

- | | | |
|-------------|--------------|--------------------------|
| 1. English | 4. Urdu | 7. Public Administration |
| 2. Hindi | 5. French | 8. Sociology |
| 3. Sanskrit | 6. Economics | 9. Geography |

- | | | |
|---------------|-----------------------|---------------------|
| 10. Music | 14. Political Science | 18. Defence Studies |
| 11. Dance | 15. History | 19. Mathematics |
| 12. Panjabi | 16. Philosophy | 20. Home Science |
| 13. Fine Arts | 17. Psychology | |

Note :

1. The same language cannot be offered as main subject as well as subsidiary and/or qualifying subjects.
2. The syllabus of subsidiary subjects except English is the same as prescribed for the elective subjects of B.A. Pass course. In case of English the Syllabus will be of compulsory English subject of B.A. Pass Course.
3. The syllabus of qualifying subjects will be the same as prescribed for compulsory/elective Hindi, Punjabi, Sanskrit and Urdu of B.A.-I and Compulsory English of B.A. I Pass Course.

*These are the practical papers of the main subjects.

**B.A. (HONOURS) EXAMINATION IN GEOGRAPHY
1999-2000**

**SCHEME OF EXAMINATIONS
OUTLINE OF TEST**

Part-I Examination	Max. Marks	Time
Paper-I Geomorphology and Oceanography	100	3 Hours
Paper-II Population and Settlement Geography	100	3 Hours
Part-II Examination		
Paper-III Climate, Vegetation and Soils	100	3 Hours
Paper-IV Geography of India	100	3 Hours
Paper-V A) General Cartography (Practical-I Written)	50	3 Hours
B) Map Interpretation and Analysis (Practical-II)	50	3 Hours
Part-III Examination		
Paper-VI Economic Geography	100	3 Hours
Paper-VII Geographical Thought	100	3 Hours
Paper-VIII A) Statistical Geography (Practical-III Written)	50	3 Hours
B) Surveying & Field Excursions (Practical-IV)	50	3 Hours

DETAILED COURSE OF READING

Part-I Examination	M.M.	Time
Paper-I Geomorphology and Oceanography	100	3 Hours
Section A : Geomorphology	75 Marks	
1. Geological time scale and scheme of major geologic events. Interior structure of the earth.		
2. Earth movements-isostasy, orogenic and apeirogenic movements; earthquakes and volcanoes.		
3. Mountain building with special reference to folded mountains; continental drift theory and plate tectonics.		

4.

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4. Mass Wasting and their geomorphological-significance.
5. The concept of geomorphic cycle-Davis and Penck.
6. Characteristics and formation of the following : —
 - i) Fluvial landforms
 - ii) Desert landforms
 - iii) Coastal landforms
 - iv) Glacial landforms and
 - v) Karst landforms

SECTION B : OCEANOGRAPHY 25 Marks

7. Temperature, salinity and density of ocean waters.
8. Tides and oceanic circulation.
9. Relief of the ocean floor with special reference to continental shelf : coral reefs and atolls.
10. Deposits of the ocean floor.

- Note :—**
1. The question paper shall be divided into three parts. Part-I shall cover items 1 to 3 of the syllabus, Part-II items 4 to 6, Part-III items 7 to 9.
 2. The question paper shall contain 10 questions in all including atleast three questions on each part. Candidates shall attempt 5 questions in all selecting atleast one question from each part.

Text Books :

1. Thornbury, W.D. Principles of Geomorphology, John Wiley Eastern Limited New York, 1969.
2. Wooldridge and Morgan, An outline of Geomorphology Longman, Green and Co. Ltd. London, 1959.
3. Strahlar, A.N. Principles of Earth Science, Harper & Row, New York, 1976.
4. Gross, G. Oceanography : A view of the earth, Prentice Hall, EngleWood Cliffs, New York, 1972.

Reference Books

1. Woodford, Waters and Gilluly, Principles of Physical Geology, Freeman, San Francisco, 1959.
2. Steers, The Unstable Earth.

3. Small, R.J., A Study of Land-forms, Cambridge University Press Cambridge, 1970.
4. Strahlar, A.N., A Modern Physical Geography, John Wiley Publication, New York, 1968.
5. Enayat Ahmed, Coastal Geomorphology.
6. Arthur Holmes, Principles of Physical Geology.
7. Dury. G.H., Face of the earth, Penguin Books, Ltd., England. 1959.
8. Anikourchine, W.A., and Stemberg R.W. World Ocean : an introduction to oceanography, Englewood Cliffs, N.J. Prentice 1973.

PAPER II Population and Settlement Geography

M.M. : 100 Time : 3 Hrs.

SECTION A : POPULATION GEOGRAPHY 50 Marks

1. World Population growth past and present including relevant factors.
2. Theories of population growth-study under broad groups. Malthusian theory in detail.
3. World patterns of population distribution and associated factors.
4. Demographic aspects of population : age structure, birth and death rates, growth rates-world patterns.
5. Composition of population : Ethnic.
6. Population movements; International and seasonal.

SECTION B: SETTLEMENT GEOGRAPHY 50 Marks

7. Evolution, structure and classification of rural settlements.
8. Origin and evolution of urban settlements.
9. World urbanisation patterns.
10. City and its region-spheres of influence.
11. Central Place Theory.

Text Books :

1. Broeck & Webb; Geography of Mankind, McGraw Hill, 2nd Ed., 1973.

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2. Trewartha: [Geography of Settlement McGraw Hill, Latest Ed.
3. Hudson, F.S. Settlement Geography.
4. Carter, Urban Geography.

Reference Books :

1. Singh, R.L. Rural Settlements in Monsoon Asia.
2. Mayor & Kohn, Reading in Urban Geography.
3. Thompson Population problems, McGraw Hill. Latest Ed.
4. Johnson-Urban Geography.
5. Beaujeu-Garner : Population Geography.
6. De Blij, H., Human Geography.
7. Zelinsky: A Prologue to Population Geography.

Note : The question paper shall contain 10 questions in all including 5 questions on each section. Candidates shall attempt 5 questions in all selecting atleast two questions from each section.

Part-II Examination

Paper-III : Climate, Vegetation and Soils Max. Marks : 100

Time : 3 Hours

Section-A : Climate

50 Marks

1. Structure and Composition of the atmosphere.
2. Insolation and temperature; world distribution of temperature. Vertical distribution of temperature.
3. Pressure and wind-world patterns, general circulation of the atmospheric motion, upper atmospheric winds.
4. Atmospheric moisture-evaporation, humidity, condensation, formation and classification of clouds.
5. Precipitation types atmospheric instability, world distribution of rain-fall.
6. Air masses, Fronts and Cyclones, and Monsoons.
7. Classifications of climates with special reference to Koppen and Thornthwaite.

Section B : Vegetation

25 Marks

1. Factors affecting forms and distribution of plants.

2. Ecological plant succession and structure of vegetation.
3. Classification of vegetation world patterns.

Section C : Soils

25 Marks

1. Factors affecting soil formation, and soil properties.
2. Major soil forming processes, classification of soil broad groups-characteristics and world patterns.

Note:-The question paper shall contain 10 questions in all including 5 questions on Section A, 3 questions on Section B and two questions on Section C. Candidates shall attempt 5 questions in all, selecting atleast 2 questions from Section A and one each from Section B and C.

Text Books :

1. Strahlar : Physical Geography, John Wiley & Sons, Lates ed.
2. Greenlånd & Daulij : The Earth in Profile.
3. Barry & Chorley, Atmosphere, Weather & Climate, IV Edition. ELBS, Methuen. 1985.
4. Critchfield H.J., General Climatology, Printice Hall, Latest Ed.

Reference Books :

1. Trewartha G T. and Harn L.H. - An Introduction to Climate Mc-Graw Hill International Book Co., 1980.
2. Patterson An Introduction to Metereology.
3. Kallman, Martin C., Plant Geography, Methuen, 1975.
4. Basila, Robert M., A Geography of soils, William C., Brown, 1971.

Paper-IV Geography of India M.M. : 100 Time : 3 Hrs.

1. Structure and relief, climate and climatic regions, the problems of droughts and floods, soils, and natural vegetation.
2. Population growth and distribution patterns.
3. Settlement-rural and urban-types and distributions patterns.
4. Agriculture : Distribution of wheat, rice, sugarcane, cotton, tea : modes of irrigation; Post independence changes in Indian agriculture; Agricultural regions.

5. Natural resources : Forest resources and their utilisation; Fisheries; mineral resources; iron ore, manganese, mica; and energy resources.
6. Industries : Agro based-sugar, cotton textiles; forest based paper mineral based-Iron & steel, fertilizers; and Industrial regions.
7. Regional economic development.
8. Comparative study of different modes of transportation Roads Railways and inland water ways.
9. India's foreign trade.

- Note :** 1) The question paper shall be divided into three parts. Part-I shall cover items No. 1 to 3 of the syllabus, Part-II Items No. 4 to 6, and Part-III items No. 7 to 9.
- 2) The question paper shall contain 10 questions in all including 3 questions on Part-I, 5 questions on Part-II, and 2 questions on Part-III.
- 3) Candidates shall attempt 5 questions in all-selecting atleast one question each from Part-I and Part-III, and two questions from Part-II

Text Books :

1. Spate, O.H.K., and Learmonth, A.T.A. Indian & Pakistan.
2. Mamoria C.B, Advanced Geography of India, (English and Hindi Editions).
3. Sharma T.C. and O.Coutinho, Economic and Commercial Geography of India

Reference Books :

- | | |
|---------------------------------|--|
| 1. Krishanan | Geology of India |
| 2. Sinha, A.K. | Industrial Geography |
| 3. Dass | Monsoons |
| 4. Ray Chaudhary | Soils of India |
| 5. Govt. of India | India a Reference Annual |
| 6. Ashish Bose | Indian Population and Trends |
| 7. Misra, R.P., etal | Regional Development Planning in India |
| 8. Singh, R.L. | India A Regional Geography |
| 9. The Gazette of India, Vol. I | Govt. of India |

Paper-V(A)**General Cartography
(Practical-I-Written)**

M.M : 50

Time : 3 Hrs

1. Nature and scope of cartography; Map classification.
2. Map scales : Graphical representation of simple comparative and diagonal scales.
3. Map Projections : Choice of projection; Graphical construction, properties and use of Conical projections with two standard parallels, Cylindrical equal area, Mercator, and Gnomonic (Polar case) and Stereographic (Polar case) projection.
4. Methods of Mapping :
 - a) Physical data-isarithmic method-isohyet, isobar and contours; Graphical Method-Climograph.
 - b) Cultural Data : Dot method, Choropleth and isopleth.
 - c) Economic Data : Located graphs : Graphical method-Composite bargraph, and Geometrical Method, Composite wheel diagram, proportional symbols.

- Note :**
1. The question paper shall be divided into 3 parts. Part-I shall cover items 1 and 2 of the syllabus, Part-II shall be on map projections, and Part-III on Methods of Mapping.
 2. The question paper shall contain 8 questions in all including 2 questions from Part-I and 3 each on Parts-II and III. Candidates shall attempt 4 questions in all, selecting atleast one question from each part.

(B). Map Interpretation and Analysis

M.M. : 50

(Practical-II)

Time : 3 Hrs.

1. Use of Plan graph for Enlargement & Reduction of maps
Planimeter for measurement of area by keeping anchor point inside and outside.
2. Map Interpretation :--
 - a) Marginal information and conventional signs used in Survey of India maps. Study of relief, and drainage settlements, and use, and transport network in three top-sheets, one each showing mountainous, plains and desert areas.

- b) Information given in Daily Weather Reports marginal information in daily weather charts.

Study of wheather maps : one from each season.

3. Map Analysis :

- a) Relief profiles-longitudinal and cross profiles.
 b) Slope analysis : Wentworth and Raisz methods.
 c) Isometric Block Diagram-profile method.

Note : i) There shall be a practical record covering both paper V (A) and (B) and this shall be submitted at the end of the second year.

ii) Marks will be distributed as follows :

Practical Examination	30 Marks
Practical Record	20 Marks

	50 Marks

Text Books :

1. Monkhouse, F.J., & Wilkinson, H.R., Maps and Diagrams.
2. Robinson, A.H. Elements of Cartography.
3. Raisz, E. & Henery, Fundamentals of Cartography.
4. Dickinson, : Mapping of Statistical Data.
5. Singh, R.L., & Dutta, P.K. Elements of Practical Geography. Central Books Depot, Allahabad.
6. Singh, R.L., & Dutta, P.K. "Preyogatmak Bhugol", Central Book Depot, Allahabad.
7. Monkhouse and Wilkinson, "Maps and Diagrams" (Hindi Translation), Hindi Directorate, Govt. of India.

B.A. (Hons.) Part-III Geography

Max. Marks : 100

Time : 3 Hours

Paper-VI Economic Geography

1. Definitions and approaches to the study of Economic Geography.
2. Theory of Agricultural location : Von Thunen's theory.

3. Whittlesey's Major Agricultural Regions of the World-concepts and criteria.
World Farming Systems (Alexander)-detailed study of the following :
 - i) Commercial grain farming-wheat.
 - ii) Mixed farming.
 - iii) Dairy farming
 - iv) Intensive subsistence farming-rice dominant.
 - v) Commercial farming in tropics-coffee, rubber.
4. Mineral resources- their distribution and trade with reference to :
 - a) Iron ore
 - b) Bauxite and
 - c) Copper
5. Energy resources-distribution and trade with reference to petroleum, coal and water power.
6. The concept of conservation of natural resources.
7. Factors of industrial location. Theory of industrial location with particular reference to Weber.
8. Case study of :
 - a) Iron and Steel industry in USSR and USA.
 - b) Cotton textiles in USA and Japan :
 - c) Automobiles industry in U.S.A., W. Germany and Japan.
9. Theory of international trade-with reference to the theory of comparative advantage,
World trading Block-their role in world trade Major world trade patterns:

Text Books :

1. Thoman, R.S., and Corbin, P.B. The Geography of Economic Activity.
2. Alexander: Economic Geography.
3. Jones and Darkenwald : Principles of Economic Geography.

Reference Books :

1. Hodder, B.W. and Economic Geography,
Roger Lee

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2. Boyes, R R. The Bases of Economic Geography.
3. Keneth Warren Mineral Resources.
4. Roopka, H.G. Readings in Economic Geography.
5. Smith G.H. Conservation of Natural Resources.

Paper-VII : Geographical Thought

M.M. : 100

Time : 3 Hrs.

1. Contributions of :
 - a) Greek School-Strabo, Ptolemy
 - b) Arab School-Ibn Khaldun, El, Ibn-e-Batuta
 - c) German School-Ritter, Humbolt, Ratzel
 - d) French School-Blache
2. Environmentalism and possibilism.
3. Nature of Geography : Study of the following view points :
 - a) Areal Differentiation
 - b) Landscape School
 - c) Locational School
 - d) Recent view points
4. The Regional concept : Basic and criteria of regionalisation of the world-natural economical and political.
5. Dualism in Geography : Physical and Human, systematic and regional, ideographic and nomothetic.
6. Types of theories and models in Geography.

Text Books :

1. Hartshore, R., Perspective on the nature of Geography, R and McNally & Company, Chicago, 1966.
2. Hartshone, R. Nature of Geography, Association of American Geographers, 1939.
3. Tylor, G., Geography in the 20th Century, Bultar & Tanner Ltd., London, 1967.
4. Dickinson, Makers of Modern Geography.

Reference Books :

1. Chorley, R.J., and Haggett, P., Models in Geography.
2. Chorley, R.J., and Haggett, P., Directions in Geography. Methuen, London, 1973. 6
3. James & Jones (eds), American Geography Inventory and Perspective, Syracuse University Press, 1954.
4. Minshull, R., Changing nature of Geography. Hutchinson University Library, London, 1970.
5. Haggett, R., Locational analysis in Geography, Edward Arnold Publication, London, 1965.
6. Deblidji, H.J., Geography regions and concepts, Wiley Publication, New York, 1971.
7. Minshull, R.I., Regional Geography.
8. Ali, M., Geography.

Paper-VIII (A) Statistical Geography M.M. : 50
(Practical-III written) Time : 3 Hrs.

1. i) Measurement in Geography-nominal, ordinal and interval scales of measurement.
- ii) Frequency distributions and graphic presentation (simple and cumulative).
- iii) Measurement of central tendency and dispersion : mean, median and mode; Quartile, deviation, mean deviation and standard deviation, and Co-efficient of variability.
2. Measurement of areal central tendency: Mean centre, median centre and median point.
3. Theoretical frequency distribution-normal curve. Properties and uses-fitting normal curve to data.
4. Bivariate data : Scatter diagrams and trend lines, simple correlation and regression.
5. Principles of sampling methods including non-spatial and spatial examples.

Text Books :

1. Grogory, S., Statistical Method and the Geographer, Longman, 1969.
2. Theakstone, R.W., & Harrison, G., Analysis of Geographical Data.
3. Yeates M.H., Introduction to Quantitative Analysis in Human Geography, Mc-Graw Hill, 1974.
4. Batalock, H.G., Social Statistics, Mc-Graw Hill, 1972.

Paper-VIII(B) Surveying and Field Excursions M.M. : 50
(Practical-IV) Time : 3 Hrs.

a) Surveying : Principles of surveying Field survey and mapping with the following instruments :

1. Chain and tape (Triangulation Method).
2. Plane table : intersection method-Resection Method :—
 - a) Tracing paper method
 - (b) Graphical (Bessele s) method
 - c) Trial and Error-inside & outside the triangle of error.
- b) Field Excursion :
 1. Local field excursions.
 2. Long field trip on a selected geographical problem.

Reference Books :

1. Kenetkar, P.T., Surveying and Levelling Pt. 1.
2. Hussain, M., Theory and Problems of Surveying, Aligarh.
3. Jones, P.A., Field Work in Geography.

Note : a) Marks under this course shall be distributed as follows :

Surveying	25 marks
a) Local reports	15 marks
b) Long excursion report	10 marks

50 Marks

- b) The practical record for this paper will consist of the excursion reports and shall be submitted at the end of the third year.