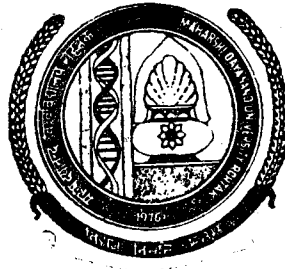


Maharshi Dayanand University Rohtak



Ordinances, Syllabus and Courses of Reading for M.A. (F) Geography Examination

Session—1998-99

Available from

Asstt. 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 : MASTER OF ARTS EXAMINATION

1. The Master of Arts Examination shall be held in two Parts, Part-I examination shall be held at the end of the first year and Part-II examination at the end of the second year.
2. The examination in Part-I and Part-II 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 in Part-II of M.A. will be held in December or on such dates as may be fixed by the Vice-Chancellor for those candidates who have passed all the Papers of Part-I exam, but have got 're-appear' or have failed or want to improve their score in Paper(s) of Part-II examination. However, total number of chances will not exceed as given in the Ordinance.

3. The last date for the receipt of admission form and fee without late fee as fixed by the Vice-Chancellor, shall be notified to the Heads of the University Teaching Departments. P.G. Regional Centre Rewari and the colleges concerned.
4. A candidate's admission form and fee may be accepted after the last date on Payment of late fee of Rs.105/- upto the date notified by the University.

Note: No late fee shall be charged if the admission form and fee are received within three working days of grace after the last date for the receipt of the same without late fee:-

5. A person who has passed one of the following Examinations, shall be eligible to join the first year (Part-I) class of Master of Arts course: (except Master of Physical Education).
 - (i) B.A./B.Sc./B.Com. (Hoons.) Examination in the subject of Postgraduate Course.
 - (ii) B.A./B.Sc./B.Com. (Hons.) in a subject other than the subject of Post-graduate Course with atleast 50% marks in the aggregate.
 - (iii) Ist Bachelor's degree with atleast 50% marks in aggregate or 45% marks in the subject of P.G. Course in which the candidate wishes to seek admission.
 - (iv) Shastri Examination (New scheme) of this University in the manner prescribed in (i) and (ii) above.
 - (v) Master's degree examination in another subject.
 - (vi) The B.A. degree obtained through English only etc. shall be considered for admission to M.A. in various subjects at par with B.A. degree.

- (vii) An examination of any other University recognised by this University as equivalent to (i) or (ii) or (iii) or (iv) or (v) or (vi) above.

Provided that:

- a) A candidate who has passed B.Com. Examination with atleast 45% marks in the subject(s)/paper(s) related to Economics including Statistics shall also be eligible to take up M.A. Economics course.
- b) A candidate who has passed B.Sc. (Agri.) with Agriculture Economics as one of the paper/subjects shall also be eligible to join M.A. Economics course.
- c) A candidates who has passed B.A. examination with atleast 45% marks in Public Administration or Sociology shall be eligible to thake up M.A. Political Science.
- d) A candidate getting atleast 55% marks in Hindi (Compulsory) subject may also be considered eligible for admission to M.A. Hindi.
- e) A candidate who has passed B.A. (Hons.) in Sanskrit with atleast 45% marks or B.A. Examination with atleast 45% in Sanskrit (Elective) may also be considered eligible to tade up M.A. (Hindi), if the candidates who have passed B.A. (Hons.) Hindi or B.A. with Hindi (Elective) obtaining 45% marks are not available
- f) A candidate who has passed Bachelors Degree Examination in Music (B.Mus. from any Indian University shall be eligible for admission to M.A. course without any condidion of minimum percentage of but no one who dida not take up Music as one of his subject for the B.A. Examination shall be eligible to take up M.A. Music provided he is working as a teacher of Music in a college admitted to the Privileges of this University or in a recognised Higher Secondary School within the jurisdiction of the University or in addition to passing B.A./B.Sc. he has passed one of the following examination:

Sangeet Visharad: Form Bhatkhande Sangeet Vidyapeeth Lucknow or from Gandharva Mahavidyalaya, Bombay.

Sangeet Prabhakar: From Prayag Sangeet Smiti, Allahabad or from Rafasthan Sangeet Sansthan, Jaipur.

Sangeet Visharad: From Prachin Kala Kender Chandigarh.

- g) A candidate who has passed B.A. Examination with Sociology or an allied subject such as Psychology, Political Science, Economics, History and Geography as one of the subjects with 45% marks in aggregate and 45% marks in Sociology or allied subject mentioned above shall be eligible to take up M.A. Sociology.
- h) A candidate who has passed B.A. Examination with History or in any other subject listed in the Faculty of Social Sciences (i.e. Political Science, Sociology, Public Administration, Geography, Psychology etc.) obtaining at least 45% marks in the subject shall be eligible to take up M.A. History.
- i) A candidate who has not passed B.A./B.Sc. (Pass or Hons.) with Mathematics as one of the subjects shall not be eligible to join M.A. Mathematics Course.
- j) A candidate who has studied the subject of Sanskrit at B.A. level, whether elective or compulsory, for a full span of three years shall be eligible to seek admission to M.A. Sanskrit Course. The minimum percentage of marks for those who have studied Sanskrit compulsorily should be 55% in the subject.
- k) For admission to M.A. (Rural Development) a candidate must have passed B.Sc. (Agriculture) with Agricultural Economics as one of the papers/subjects obtaining 50% marks in aggregate or B.A. with 45% marks in any subject of Social Sciences.

FOR M.A. PHYSICAL EDUCATION

Eligibility condition for admission to M.A Physical Education:-

Note: A person who has passed one of the following examinations shall be eligible to join the 1st year (Part-I) of the Master of Arts (Physical Education) course:-

- A i) A Bachelors's Degree examination in Humanities of the M.D. University, Rohtak or an examination recognised as equivalent thereto with at least 45% marks in the aggregate with English as one of the subjects at the under-graduate level or B.Com./B.Sc./B.Sc. (Home Science) B.Sc. (Agri.) with 45% marks.
- ii) B.P. Ed./D.P. Ed. one year course after graduation with at least 50% marks.
- iii) B.A./B.Sc. with Health and Physical Education as one of the subjects in three years degree course with at least 50% marks.
- iv) Bachelor of Physical Education (B.P.F.) three year degree course with at least 50% marks.

v) B.S.H. and P.E. five years course with atleast 50% marks.

AND

B The candidate has taken part in the Inter-University or Inter state or National Tournament in the games and sports recognised by the Inter-University Sports Board Provided that the candidate qualified in the standard efficiency test at the time of Examination to the first year course.

IMPORTANT NOTE

A person who has passed Post-graduate examination shall not ordinarily be allowed to seek admission to P.G. Course in another subject as a regular student.

6. A candidate who is placed under compartment in the qualifying exam shall not be allowed to join M.A. Course.
7. A candidate who has failed in one or more paper(s) or fails to appear in M.A. Examination shall be allowed two additional subsequent chances only to pass the M.A. examination. This is however, subjects to the provision in Clause-8 below.
8. A candidate who fails to pass the M.A. Examination within a period of four years of his admission to the course shall be deemed to be unfit for Post-graduate Studies in the subject concerned.
9. A person who has passed toh following Examinations shall be eligible to join the M.A. Part-II:-
 - a) M.A. Part-I Examination from M.D. University, in the subject concerned. This is however, subject to Clause-7. However, the candidates who have passed atleast two theory papers out of four or five theory papers or atleast three theory papers out of six or seven theory papers of Part-I exam. of the University will be promoted to Part-II class, provisionally

OR

- b) M.A. Part-I Examination of the subject offered from the Kurukshetra University or Panjab University or Punjabi University, or Guru Nanak Dev University or Himachal Pradesh University, provided that the Head of the University Departments/Principal of the college concerned is satisfied that the contents of papers already passed by him are almost the same as in the M.A. Part-I Examination this University; in this case the marks obtained in M.A. Part-I of the course at any of these Universities shall be counted towards division of

successful candidates by increasing or reducing the marks obtained in accordance with maximum marks prescribed for M.A. Part-I Examination of this University.

10. The M.A. Examination in Part-I/Part-II shall be open to a student who:-
- has passed the requisite qualifying Exam. or is covered under Clause-5 and 8 and
 - has his name submitted to the Controller of Examinations by the Head of the University Dept./Principal of the college he has most recently attended and produces the following certificates, signed by him:-
 - of possessing good character
 - of having remained on the rolls of Department/College during the year preceding the Examination and of having attended not less than 65% of the full course of lectures and tutorials separately and 75% of practicals (the courses to be counted upto the last day when the classes break up for the preparatory holidays).
11. Every candidate shall be examined according to the scheme of examination and syllabus as approved by the Academic Council from time to time.
12. The amount of Examination fee to be paid by a candidate for each year shall be as follows :-

Regular	Ex-Student
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Rs. 100/- (Plus Rs. 20/- per practical Rs. 110/- Subject)

13. A candidate who re-appears in one more paper(s) Practical(s) for the purpose of passing/improvement of score of marks/result shall pay fee as for the whole Examination.
- The medium of instructions shall be:-
 - Hindi in case of Hindi and English in case of English
 - English or Hindi or Sanskrit in case of Sanskrit and
 - English/Hindi in case of other subjects.
 - The question papers will be set :-
 - in Hindi in case of Hindi, Sanskrit and Music and
 - in English and Hindi in case of other subjects.

- iii) The candidate shall write their answer as under :-
- a) in Hindi in case of Hindi;
 - b) in English or Hindi or Sanskrit in case of Sanskrit
 - c) in English in case of English and Mathematics and
 - d) in English/Hindi in case of other subjects.

15.1. The minimum number of marks required to pass the Examination shall be as under :

- A) In all subjects except Physical Education
- i) 33% in each paper (written and practical separately);
 - ii) 40% in each practical in the case of Music;
 - iii) 40% in Dissertation/Viva-Voce, where prescribed;
 - iv) 40% in aggregate
- B) In Physical Education
- i) 35% in each theory paper;
 - ii) 40% in practical; and
 - iii) 40% in aggregate

15.2. A candidate who has completed the prescribed course of instructions in College/University Teaching Department for previous/final examination but has not appeared in it or having appeared fails may be allowed on the recommendation of the Principal of the College/Head of University Teaching Department concerned to appear in the subsequent year in the examination paper(s) as the case may be without attending a fresh course of Instruction. While reappearing in the examinations the candidate shall be exempted from reappearing in paper(s) and/or practical(s) in which he has obtained atleast 40% marks.

16.1. A candidate who has passed M.A. Part-I Examination obtaining at least 55% marks in aggregate may offer dissertation wherever prescribed in the Scheme of Examination for the course. The subject of the dissertation shall be approved by the Head of the Department concerned. A candidate shall submit to the Head of the Department an

application for the approval of the topic for the dissertation alongwith a synopsis within one month of his admission to M.A. Part-II.

- 16.2 Every candidate who offers dissertation shall be required to submit three copies of his dissertation alongwith a brief abstract of the same giving an account of the investigation/research conducted and its main findings (which will not exceed 500 words). The dissertation shall be examined by one external Examiner only.
- 16.3. The last date for receipt of the dissertation in the office of the Controller of Examinations shall be one month before the commencement of the Theory Examination, provided that in exceptional, cases, Vice-Chancellor shall have the power, to extend, on the recommendation of the Head of the Department, the last date for receipt of the dissertation upto three months. If a candidate fails to submit his dissertation even during the extended period he will be considered to have absented in the dissertation paper and his result shall be declared accordingly.
- 16.4. A candidate who has submitted a dissertation as a part of the Examination, may withdraw the same before it has been examined but once is it examined and candidate obtains the minimum pass marks he shall not be permitted to withdraw it or submit another dissertation in lieu thereof. The marks obtained by him for the dissertation shall be taken in to account when he appears in any future examination for the purpose of passing therein or for improving the score of marks/result.
17. As soon as possible, after the termination of the examination the Registrar/Controller of Examinations shall publish the result of candidates and issue Detailed Marks Card.
18. The result of candidates who have passed the M.A. examination shall be classified into division as under, the division obtained by the candidate will be stated in his degree :-
- | | |
|---|-----------------|
| a) Those who obtain 60 percent or more marks | First Division |
| b) Those who obtain 50 percent or more but less than 60 percent marks | Second Division |
| c) All below 50 percent | Third Division |

19. A candidate who has already passed the Master of Arts Examination from this University, in a subject in which different optional papers are permitted, may appear in one or more other optional papers of that subject, at any subsequent examination when held, without attending a regular course of study on payment of fee as prescribed for the whole exam. Provided that if there is any corresponding Practical work involved he must attend the prescribed number of practicals etc. in the Department. Such a candidate shall, in order to pass, be required to obtain at least 40 percent marks in each paper.
20. A candidate who has passed Part-I of M.A. Examination of this University, will be allowed to appear for improvement of his result as an ex-student in one or more theory papers of M.A. Part-I Examination once within a period of three years of his passing the Part-I Examination. A candidate who has passed Part-II of M.A. Examination of this University will be allowed to appear for improvement of his result as an ex-student in one more theory paper(s) of the M.A. Part-II. Examination once within a period of two years of his passing the Part-II Examination.

The candidates may however, appear for improvement of Part-I Examination simultaneously with Part-II Examination while appearing in Part-II Examination for passing or for Improvement.

The result of such a candidate shall be declared only if he improves his score of marks by taking into account the marks obtained by him in the paper(s) in which he reappeared and the marks obtained by him earlier in the remaining paper(s) etc. The fact that the candidate has improved shall be mentioned in the Detailed-Marks Card.

Provided further that the candidate will take the Examination according to syllabus in force for the regular student for that examination.

21. Notwithstanding the integrated nature of this course which is spread over more than one academic year, the Ordinance in force at the time a student joins 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.

M.A. (FINAL) GEOGRAPHY 1998-99

M.A. (Final) Examination Geography shall consist of four theory papers and one paper on Field Methods and practicals. Each theory paper shall be of 3 hours duration carrying 100 marks each. The paper-X on 'Field Methods and Practical' shall consist of two parts, A & B carrying 50 marks each. The paper-X Part-A shall be a theory paper on 'Field Methods of Investigation in Geography, and conducted alongwith the main theory Examinations. The general outline of all the papers of M.A.(F) Examination is as follows:

Paper-VI Modern Geographical Thought 100 3 Hours

Paper-VII Advanced Regional Geography of India 100 3 Hours

Paper-VIII Options-(A) 100 3 Hours

(Any *one* of the following)

- i) Political Geography
- ii) Social Geography
- iii) Geography of Human Welfare
- iv) Cultural Geography
- v) Applied Geography
- vi) Anthropogeography

Paper-IX Options-(B) 100 3 Hours

(Any *one* of the following)

- i) Population Geography
- ii) Urban Geography
- iii) Geography of Rural Settlements
- iv) Agricultural Geography
- v) Regional Planning
- vi) Biogeography

Paper-X Field Methods and Practical

Part-A: Field Methods of Investigation in Geography

(A Theory paper to be held alongwith the main examination of theory papers)

50 3 Hours

Part-B Lab. Work 50 3 Hours

- a) Lab work test,
Slope analysis Remote Sensing
and Aerial Photo Interpretation) 24

b) Record work	16
c) Viva-Voce	10

Note : 1. The examination in Lab. Work shall be conducted by a board of two external examiners assisted by the Head of the Deptt. at the examination Centre (or his nominee) who shall participate in the Viva-voce examination and shall offer advice as regards the candidates record books but shall not be involved in the process of actual evaluation and marking.

2. Which particular option/options shall be taught in the Department during a given year shall depend on availability of resources. In this regard the decision of the Departmental committee shall be final.

Syllabus and Courses of Reading

Paper-VI Modern Geographical Thought

M. M : 100

Time : 3 Hours.

Part-I

1. Impact of Discoveries : Revival of interest in Geography in the 16th and 17th Centuries, a general survey with special reference to contributions of Barnard varenius, Ritter, Humboldt.
2. Post-Ritterian Geography and the Rise of Dualism : Physical Vs. Human Geography, and Regional Vs. Systematic Geography.

Part-II

1. Rise of Geography as an integrated Discipline :
2. Integration in terms of Chorology : Contribution of Richthofen, Hettner, and Sauer
3. a) Darwin's impact on Geography;
b) Why was time neglected in Modern Geography?

Part-III

- 1.a) The Role of Historical Explanation in Human Geography. Approaches to the study of Historical Geography.

- b) Regional concept in Geography; the logic and purpose of regional system.
- 2. a) Quantitative Revolution and the New Mainstream Geography as a Spatial Science : A Critical Appraisal.
 - b) Anti positivis, and rise of humanistic approaches in Geography.
- 3. a) Behavioural revolution in Geography.
 - b) The Call for social relevance : Liberals and radicals.

Note : Candidates shall be required to answer 4 questions in all, choosing one question from each part. The question paper shall contain 9 questions in all, three questions from each part. There shall be atleast one question on each of the eight topics.

Books Recommended :

- | | |
|-----------------------|---|
| P.E. James and Martin | All Possible Worlds, JohnWiley (India reprint). |
| R.E. Dickinson | Makers of Modern Geography, Routledge & Kegar Paul, London. |
| R.J. Johnston | Geography and Geographers, Edward Arnold, Fourth Edn. 1991. |
| R.J. Johnston,(ed.) | The Future of Geography Methuen, London, 1986. |
| R. Hartshorne | Perspective on the Nature of Geography Rand Mc. Hally (Indian Reprint). |
| W.K.D. Davies(ed.) | Conceptual Revolution in Geography London University Press, 1972. |
| Peter Gould | The Geographers Craft, Routledge & Kegan Paul, London, 1985. |
| D.Gregory | Ideology, Science and Human Geography. |
| R.Peat (ed.) | Radical Geography, Methuen 1976. |

D. Lay Humanistic
Geography

Groom-Helm, 1978 & Samrats
(ed.)

R.D. Dikshit

"On the Changing Professional
Concerns in Geography"
Geographical Review of India,
March, 1984.

R.D. Dikshit

"Geography of Teaching of the
Environment" Transaction.
Institute of India Geographers,
July, 1985.

Paper-VII Advanced Regional Geography of India

Max. Marks : 100

Time : 3 Hours.

Introduction

Unit-I i) Spatial Setting-India as a Geographical unit,(Location, size and extent), India in the context of Asia and the World.

ii) Physical Setting-Relief, Climate, Drainage, Soils, Natural Vegetation.

iii) Human Resource-Growth, distribution and structure of population, Trends of urbanisation, population problems.

Unit-II Economic Structure

i) Agricultural, patterns-Broad Trends of Land Utilisation and Agricultural Production, Production of Paddy, Wheat, Sugarcane, Cotton, Jute and Tea; Characteristics and Problems of Indian Agriculture.

ii) Industrial patterns-power Resources (Coal, Mineral Oil, and Hydroelectric Power), Mineral Resources (Iron, Mica, Manganese and aluminium), manufacturing Industries (Iron & Steel, Textile, Sugar, Cement, Fertilizer and Paper).

iii) Transport and Trade patterns-Different Modes of Transport and their Functional Significance, Internal and International Trade-composition and change.

Unit-III Regional Structure

- i) Regional Structure of India (Schemes of R.L. Singh, P.Sen Gupta and, B.K. Roy)
- ii) Regional Account-Study of the following Regions based on R.L. Singh's classification.
 - (i) Kashmir Himalays (ii)Haryana-Punjab Plain.
 - (iii)Chota Nagpur Plateau (iv)Coromandal Coast.

Note : The question paper shall contain 8 questions in all including 3 questions each on Units I & II and 2 questions from Unit III (i.e. one question on each topic). The candidate shall attempt only four questions selecting atleast one question from each unit.

Books Recommended :

1. Mitra Ashok, India's Population Vol. I & II, Abhinav Publications, New Delhi, 1978.
2. Chibber, H.L. India : Physical Basis of Geography, Nand Kishore, Banaras, 1961.
3. Singh, Jasbir, An Agricultural Atlas of India : A geographical analysis Vishal Publications, Kurukshetra, 1974.
4. Sharma, T.C. and Coutinho, O., Economic and commercial Geog. of India, 1981.
5. Singh, R.L. India : A Regional Geography NGI, Varanasi, 1971.
6. Spate, D.H.L., and Learmonth A.T.A. India and Pakistan, Methuen and Co., London, 1967.
7. Wadia, D.N. Geology of India, Macmillan, London, 1967.
8. Govt. of India National Atlas of India, NATMO Calcutta.
9. Puri G.S., Indian Forest Ecology, Vol. I & II Oxford Book and Stationery Co., New Delhi, 1960.
10. Sengupta, P. and G. Sdasyuk, Economic Regionalisation of India Census of India Publications, 1968 New Delhi.
11. Srivastava, M.A., Trade of India, S. Chand and Co., London, 1967.

12. Roy, B.K. and V.S. Verma, Regional Divisions of India-A. Cartographic Analysis, Census of India Publication Series I Vol. I to XXXIII, 1988.
13. Datt, R. and KPM Sundharam, Indian Economy, S. Chand & Co., Pvt. (Ltd.), New Delhi, 6th Revised Edition, 1989.
(First Published in 1965).
14. Ray, S.K. Indian Economy, Prentice Hall of India, Pvt. Ltd. New Delhi, 1987.
15. Misra, S.K. and V.K. Puri Indian Economy, Himalaya Publishing House, Delhi, 7th Revised and Enlarged Edition, 1989. (First Published in 1983).
16. Govt. of India, India-A Reference Annual, Publications Divisions, New Delhi.
17. Mamoria, C., Bharat Ka Bhoogol, Sahitya Bhawan Agra, 1986.

Paper-VIII (i) Political Geography

Max. Marks : 100

Time : 3 Hours.

Part-I

1. History and Development of Political Geography with special study of the contributions of Ratzel.
2. Changes in the concept of Political Geography-Organismic; Chorological; spatial-Behavioural; Political Economy (A General Survey).
3. (i) Concepts of Link, Forward and Federal Capitals; Core-areas.
4. (ii) Structure Process framework for study of Effective Central Authority.

Part-II

1. Geopolitics-past heritage and present orientation.
2. Global strategic views-Mackinder, spykeman, de Seversky.
3. Impact on global strategic thinking of the contemporary changes in Political power structure in Europe.

Part-III

1. Approaches to the study of Elections; the concept of Electoral Abuse-Gerrymandering and Malapportionment; Ecological Fallacy.
- 2.(i) Nature and Geography of Modern Federalism as a democratic system.
- (ii) Factors for the choice of a federal system of independent India.
3. Methodological Approaches to the study of Political Geography, Functional, Unified Field Theory, Systems, Genetic-Functional.

Note : The question paper shall contain nine questions in all, three on each part (including one on each topic). A Candidate shall attempt four questions in all selecting atleast one from each part.

Books Recommended :

- | | |
|------------------------------------|--|
| R.D. Dikshit | Political Geography : A Contemporary Perspective Tata Mc-Graw Hill, 1987 reprint. |
| R.E. Kasperson & J. V.Minghi (ed.) | Structure of Political Geog. , London University Press, 1969. |
| W.A.D. Jackson & Semuels (eds). | Political Land Geographic Relationship Prentice Hall, 1970. |
| Pater Taylor | Political Geography, Longman, London, 1981. |
| Burentt & Taylor (ed) | (Political Studies from Spatial Perspective John Wiley, 1987. |
| R. Muir and Paddison, 1981 | Politics, Geography and Behaviour, Methuen |
| P.J. Taylor & R.J. Johnston | Geography of Election, Penguin, 1979. |
| R.D. Dikshit | "On Developments in Political Geography", Indian Geography (Institute of Indian Geographers) Vol. I PP 121-134. |
| R.D. Dikshit | Political Geography of Federalism , Macmillan, London and Delhi, 1975. |

Paper-VIII (ii) Social Geography

Max. Marks : 100

Time : 3 Hours.

1. Definition and nature of Social-Geography; Social pattern and process; Social Geography-a Group framewoprk; Nature of Data in Social Geography and problems of Scale; Distributional patterns of Social groups and factorial ecology; social significance of patterns.
2. Explaining the social patterns (A behavioural approach); Segregation and Assimilation; Measuring and Mapping of Segregation; social consequences of migration and Urbanisation.
3. A Fair Society-concepts and measurements; social justice and fair society; Public Policy and Social Planning; Social Geography and Public Policy.

Note : There shall be three questions from section I and II and two questions from section III. Students are required to answer four questions selecting atleast one question from each section.

Reading List

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|-------------------------------|--|
| Jones, E. and Eyles, J. | Introduction to Social Geography, Oxford University Press, London, 1977. |
| Jackson, P. and Smith, S.J. | Exploring Social Geography, Allen & Unwin, London. |
| Jones, E. (ed.) | Readings in Social Geography, Oxford, University Press, London, 1975. |
| Albaum, M., | Geography and Contemporary Issues : Studies in Relevant Problems, John Willey and Sons, Newyork, 1973. |
| Kariel, H.G. and Karial, P.E. | Exploration in Social Geography |
| Addison | Sesley Publishing Co., Massachusetts, 1972. |

Mukerji, A.B.

The Charges of Uttar Pradesh :
A Study in Social Geog. Inter -
India Publications, Delhi-1980.

Paper-VIII (iii) Geography of Human Welfare

Max. Marks : 100

Time : 3 Hours.

1. a) Evolution of Humanistic Perspective in Geography; Meaning, Methodology, and Approaches (Positive and Normative Approaches) of Humanistic Geography; The Multidisciplinary focus of Humanistic Geography.
- b) Human Welbeing-Its meaning and indicators; welfare problems in contemporary World. Welfare improvements as the criteria of development; Relationship between social and economic development; Development and inequality; The process of development; and under development in the contemporary World.
2. a) Distributional aspects of welfare in terms of who gets what where; Theories of Distributions; class and political power; Distribution of value among classes and its Geographical implications in welfare, Geographical aspects of wellbeing location, accessibility, proximity and externality.
- b) The conceptual premises of judging distribution: Equality, Differential treatment; constrained inequality; social constraints and distributive justice; ideal institution and welfare improvements.
3. a) Changing the Distribution for welfare improvement - Planning the process of change; social problems and priorities; spatial planning strategy location distance and accessibility objectives spatial planning reforms.
- b) Location and allocation problems in welfare in terms of what should go where-examples of location of industry; employment & accessibility and access to medical care etc.

Note : The paper shall contain 8 questions in all including 3 questions each from 1 & 2 and two questions from section 3. Candidates are required to attempt 4 questions in all selecting atleast one question from each section.

Reading List

1. D.M. Smith Human Geography, A Welfare Approach, Arnold, N.D. 1979.
2. B.E. Coates et al, Geography and inequality Oxford University Press, 1979.
3. D.M. Smith Where the Grass is Greener, Penguin, 1979.
4. P.L. Lenox Social Welbeing : A Spatial Perspective, Oxford University Press, 1971.

Paper-VIII(iv) Cultural Geography

Max. Marks : 100

Time : 3 Hours.

Section-A

1. Cultural Geography : Nature and Scope
The Growing Organisation of the Earth Space :
 - a) The Evolution of Regional, Cultural Hearths with reference to (i) Mesopotamia, (ii) The Nile Valley and (iii) The Indus Valley.
 - b) The Formation and Dominance of Early Regional Culture Realms.

Section-B

3. The main stages in Socio-Economic Evolution.
4. Increasing the Speed and Efficiency of Operation of Cultural Processes.

Section-C

5. Space Intensification
 - a) Spece Intensification in Resource Extraction :
 - (i) Space Intensification in Agriculture (ii) Space Intensification in Mineral Resource Extraction.
 - b) Intensification in Resource Conversion.
 - c) Intensification through Regional Development.

6. Man's Dominance of the Earth : (i) Man as an Agent of Physical change, (ii) The Control of Biotic Environment, (iii) The Control of Cultural Environment, (iv) The Nature of Human Technologies and Human Habits, (v) Resource, Demand and Industrialisation.

Note : The paper shall contain 8 questions in all including 3 questions each on sections A and C and 2 questions from Section-B. The candidates will have to attempt four questions selecting atleast one question from each section.

Suggested Readings

- Wanger, P.L. and Mikesell Reading in Cultural Geography,
Marrin University of Chicago Press,
Chicago and London, 1962.
- Spencer J.E. & Thomas Cultural Geography, John Willey
Williant and Sons, New York, 1969.
- Thomas W.L. and Spencer, Introduction Cultural Geography
J.E. John Willey & Sons, New York,
1973.
- Bose, N.K. Culture and Society of India, N.Y.
Asia 1967.
- Jones, E., Reading in Social Geography,
Oxford University, Press London,
1975.
- Russel R.J., and Kniffen, Culture World Macmillan, New
F.B. York, 1968.

Paper-VIII (v) Applied Geography

Max. Marks : 100

Time : 3 Hours

- Unit-I Meaning and Scope of Applied Geography Problematic Approaches to Geog., Application of Geomorphology to Engineering Projects-Highway construction, Dam Site selection, Location and Site for Air Fields, Ground Water Hydrology and Mineral Extraction.
- Unit-II Rural Land Use Principles of Land Use Planning, Land Use Studies in U.K., U.S.A. Japan and India, Land Use Analysis Location Theories, Agricultural Efficiency, Carrying capacity of Land.

Unit-III Urban Land Use and Town Planning- principle of Urban Land Use Planning, Town Planning Methods and Techniques and Urban Renewal. Delimitation of Urban Field, Functional Zonning and Urban Transport, Town Planning in India.

Unit-IV Multi Purpose Projects-Concept and Approaches, Tennessee Valley Authority (TVA) Project Aswan High Dam Project Damodar Valley Corporation (DVC), Project, Shakra Nagal Project; Hirakud Project, Chambal Project, Indira Gandhi Canal Project.

Note : The question paper shall contain 8 questions in all including two questions from each unit. Candidates shall attempt 4 questions in all selecting atleast one question from each unit.

Books Recommended :

- | | |
|-------------------------------|--|
| 1. Stamp, L.D. | Applied Geography, Penguin Books, A-449 Middlesex, 1963. |
| 2. Chapin, F.S. | Urban Land Use Planning, 2nd Edition, University, of Illinois Press, 1965. |
| 3. Stamp, L.D. | Land of Britain-Its use and Misuse Longmans, Green & Co., Ltd. London, 1962. |
| 4. Singh R.L. (ed). | Applied Geography (Proceeding of Summer School), NGSI, Varansi, 1968. |
| 5. Friedman J. & W. Alone | Regional Development as a policy Issues in Regional Development Planning. |
| 6. Sengupta, P. & Sadsyuk, G. | Economic Regionalisation in India-Problems and Approaches Census of India, 1961 Monograph Series Vol. I No. 8, 1968. |
| 7. Singh, Savindra | Bhoo-Akriti Vigyan:
(Geomorphology). |

8. Pal, Ram & B. Nath Vyavharik Bhoogol (Applied Geog.).
9. Memoria, C.B. Bharat Ka Bhoogol, Sahitya Bhawan Agra, 1988.
10. Jain J.K. and D.M. Bohra Vyavharik Bhoogol, Rajasthan, Hindi Grant Academy Jaipur, 1974.
11. Embleton, C. and J.T. Land Use and Resources - Copping(ed) Studies in Applied Geography, Special Publication No.1 Institute of British Geographers, London, 1968.
12. Jacson J.N. Surveys for Town and Country Planning : Hutchinson University Library, London 1963.
13. M. Shafi and M. Raza(ed). Studies in Applied and Regional Geography, AMU, Aligarh, Aligarh, 1971.
14. Turnur, D.S. Applied Earth Science (Foundation of Earth Science Series) W.M.C. Brown Publishers, 1969.
15. Thornbury, W.D. Principles of Geomorphology (Especially the Chapter Applied Geomorphology, 539-576) John Wiley & Sons, Inc., New York, Reprint 1984.
16. N.I.S.I. Role of River Valley Projects in National Planning (1966) National Inst. of Science of India Bull 40, New Delhi 1969.
17. Griggiths, J.E. Applied Climatology, Oxford University Press, London, 1968.
18. Burtelli, L.J. and et. al (ed.) Soil Surveys and Landuse Planning, Social Science

- Society of America and American Society of Agronomy, Wisconsin, 1966.
19. Greigton, R.L. Urban Transportation Planning, University of Illinois Press, 1969.
20. Dickinson R.E. City and Region-A Geographical Interpretation. Routledge and Kegan Paul Ltd., London, 1964.
21. Freeman T.W. Geography and Planning, Huthinson University Library London, 1964.
22. Gupta, R.K. Planning Natural Resources, Navyug Traders New Delhi, 1971.
23. Laszezycki, L. et. al (ed). Problems of Applied Geog. II Geographical Polonica 3, PWN - Polish Scientific Publishers Warsazawa, 1964.
24. Steers, J.A. Field Studies in British Isles, Thomas Nelson and Sons. Ltd., London, 1965.

Paper-VIII(vi) Anthropogeography

Max. Marks: 100

Time : 3 Hours

Section-I

- a) Nature, Scope and Significance of Anthro-geography.
- b) Environment and antiquity of man : Geographical Perspective of the Origin and dispersal of man;
- c) Fossil record of human evolution : Australopithecous, Home Erectus, Homosapions, Pleistocene Environment in human prehistory.

Section-II

- a) Man's Cultural Evolution : The concept of 'Ages' in prehistory; archaeological Ages and their salient Socio-economic attributes. Technological, Social and Cultural developments during the Paleolithic period with special reference to India.
- b) Origin and the early spread of the food producing economy with special reference to India.
- c) Urbanisation of Society and rise of Civilization with special reference to Sumerian, Nile Valley, Indus Valley, Inca and Mays, Civilization.

Section-III

- a) Modern Man: The concept of race; race and recism; criteria of racial classification
- b) Primary Human Races-their distribution and physical characteristics.
- c) People of India; Racial classification of Indian population; Tribe and Caste in relation to race in India.

Note: The question paper shall contain 8 questions in all including three questions each from sections-I and II and two questions from section III. Candidates shall attempt four questions in all, selecting atleast one question from each section.

Books Recommended :

1. Bould and Vallsis, Fossil Thomas and Hudson, London, Men 1957.
2. Brukitt, M.C. Old Stone Age Combridge University Press London, 1973.
3. Butler, K.W. Environment and Archeology, Methuen, 1964.
4. Clark, G. World Prehistory, Cambridge Uni. Press, London, 1962.
5. Child, G. Man Makes Himself, Wats & Co., London, 1956.

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| 6. | Childe, G. | New Light on the Most Ancient East, Rautledge and Kegan Paul, London, 1952. |
| 7. | Coon, C.S. | The History of Man, Penguin, New York, 1967. |
| 8. | Curven E.C. | Plough and Pasture, Thomas Knight & Co. Ltd., 1946. |
| 9. | Fuchs, S: | The Aboriginal Tribes of India, Mc Millan, India, 1973. |
| 10. | Guha, B.S. | Race Element in Population, Oxford University Press, London, 1937. |
| 11. | Hooten, E | UP from the Aped, Motilal BanarasiDas, Delhi, 1965. |
| 12. | Hutton, H.H. | Caste in India, Oxford University Press, Bombay, 1961 |

Paper-IX (i) Population Geography

Max. Marks: 100

Time : 3 Hrs.

1. **Introduction to Population Geography:**
 - a) Nature and Scope of Population Geography, Sources of Population data, their problem of comparability and reliability with special reference to India.
 - b) Dynamics of Population' Fertility, Mortality & Migration meaning and measures; determinants of Fertility and Mortality; Level and Transition of Fertility and Mortality in India.
 - c) **Migration:** A general study of theories of Migration with detailed study of Reverstein and Lee's Theories of Migration streams; causes and consequences of Migration. A general survey of Nature and extent of Migration in India.
- 2.a) **Distribution and Composition of Population:** Population density and related factors; Determinants and Consequences of age and sex structure of population with reference to developed and developing Countries and with special reference to India.

- b) Social and Economic characteristics of Population: Literacy-Male and Female and Rural & Urban; level and composition of working population with special reference to India.
- 3.a) Population Theories : Malthus, Recardo, Marx and Post Malthusian Theories, concept of optimum population; Demographic transition; and Population growth and its impact on environment. Inter-relationship between population growth and economic development.
- b) Population Policy: India's population policy and family welfare programmes performance and shortcomings of family welfare programmes since Independence.

Note :The question paper shall contain 8 questions in all including three questions each from Section-1 and 3 and 2 questions from Section-2. Candidates shall attempt 8 questions atleast one question from each section.

Reading List

1. Chandana, R.C. & M.S. Sindhu Introduction to Population Geography, Kalyani Publishers, Ludhiana, 1980.
2. Clerks, J.I. Population Geography, Pergemon, 1972.
3. R. Woods Population Analysis in Geography, Longman, London, 1979.
4. K.V. Sundrum and S. Nangis Population Geography (eds.) Heritage Publishers, New Delhi, 1985.
5. Bhende & Kamirker Principles of Population Studies, Himalya Publishing House Bombay, 1983.
6. S.N. Singhot et al (eds.) Population Transition in India, B.R. Publishing Corporation, New Delhi, 1989.

Paper-IX (ii) Urban Geography

Max. Marks: 100

Time : 3 Hrs.

Section-I

- a) Nature, Scope and Significance of Urban Geography.
- b) Different Approaches to the Study of Urban Geography.
- c) Recent trends in Urban Geography.
- d) Olden Towns and Modern Towns: (i) Site of Town, Trade Administrative and Commercial, Specialised Functions, Resources, Situation of Towns: Routes, Physical barriers, Water transport, Physical location inland routes, Railway, Markets, Political aspects changes in fortunes.

Section-II

- a) Social Surplus Concept of Urban Evolution.
- b) Nature of the Pre-Industrial and of the Modern Metropolitan city. Social Processes Affecting Landuse: Aggregation, Dominance.
- c) Gradient and Succession, Centralization and Decentralization Invasion and Succession; Social behaviour as a Determinent of Landuse, Human behaviour and landuse, Social value and Land use.
- d) Urban Land use Pattern:- Location Decision, Location Criteria, Location Factors, Accessibility and Determinants.

Section-III

- a) Theories of Urban Structures:- Concentric Zone Theory, Criticisms-Davie Quinn, Alhaun and Schnore, Sector Theory, Criticisms-Firey, Rodwin and Re-evaluation. Multiple Nuclei Theory, Star Theory.
- b) Locational Theory and Urban Hierarchy-The Economics of Location, Locational Factors, Location decision. Central Place Theory-Central Place and Urban

Hierarchy. The Economic Base Theory. The classification of Basic Service. The Activity, criticism of Base Theory.

- c) The Central Business Distt., The Zone of Transition, The Sub-Urban Area, The Rural-Urban Fringe, The Satellite and Ring Towns.
- d) The Process of Urbanisation Definition and Measurement. The Process of Urbanisation in India. City and its Hinterland.

Section-IV Urban Problems

- a) Population and Environment: Demographic, Environmental, Transportation and Housing. Social Problems: The Ethnic Mosaic, Education, Crime.
- b) Urban Problems of India-Over crowding, Social and Economic Infrastructures.
- c) Origin, Growth and consequences of Slums and Squatter settlements.

Note :The question paper shall contain eight questions in all including two questions on each section. Candidates shall attempt four questions in all selecting one question from each section.

Books Recommended

1. Carter, H. The Study of Urban Geography, Edward Arnolds, 1973.
2. Bruns, S.D. & Williams J.E. (eds.) Cities of the World, World Regional Urban Development, Harper & Row 1983.
3. Northam, R.M. Urban Geography. John Wiley, 1975.
4. Herbet T.D., & Thomas, J.C. Urban Geography- A First Approach, John Wiley, 1952.
5. Gilbert, A. Gugler, J. Cities, Poverty and Development; Urbanization in the Third World, Oxford University Press, 1982.

6. Clark, D. Urban Geography: An introductory Guide. Groom Helm, London.
7. Meyer, I.R. & R.J. Hugget. Settlements, Harper, & Row Publishers, London, 1979.
8. Bose, A. India's Urbanization 1901-2001, Tata Mc Graw Hill, New Delhi, 1978.
9. Alam, S.M. & V.V.P. Urbanization in Developing Countries. Hyd. 1976.
10. Short, J.R. An Introduction to Urban Geography, Routledge & Kegan Paul, London, 1983.
11. Wallader, M. Analytical Urban Geography, Prentice-Hall, Englewood Cliffs, New Jersey.
12. Taylor, T.G. Urban Geography, NY: E.P. Dutton, 1946.
13. Murphy, R.E. The Central Business District, Aldine, Longman, London, 1972.
14. Johnston, R.J. City and Society: An outline for Urban Geog. Penguin, London, 1980.
15. Alam, S.M. Metropolitan Growth Trends and Regional Relationship. Kanpur and Hyd., in P.B. Desai, Regional Prospective of Industrial Urban Growth, Macmillan & Co., Bombay, 1969.
16. Mitra, A. 'Functional Classification of India's town and their Broad Features', in Ashish, B(ed.) 'Patterns of Population Change in India 1951-61, Allied Publishers, I.

17. Mitra, A. **India's Population, Vol. II.**
18. Dentle, R.A. **Urban Problems: Perspective and Solutions, Rand Mc Nally, College Publishing Co. Chicago, 1977.**
19. James, O.W. & Petter, O.M. **Economic Geography,** John Wiley and Sons.
20. Alan, B.M. **"Urbanization, the squatter and development in the Third World", in L.S. Bourn & J.W. Simmons (ed.) System of Cities: readings on Structure, Growth and Policy, OUP, NY, 1978.**
21. Hirsch, W.Z. **Urban Economic Analysis,** Harper and Row, N.Y. 1973.
22. Michael, R. **Understanding Human Geography: A Practical Approach** Bell & Hyman, London, 1986.
23. Murphy, R.E. **The American City: An Urban Geography** Mc Graw Hill Co., New York, 1966.
24. Johnson, J.H. **Urban Geography: An introductory analysis,** Pergaman Press London, 1967.
25. Hauser, P.M. & Schnore, L.F. (eds.): **The Study of Urbanization,** Wiley, New York, 1965.
26. Mayer, H.M. & Kohn C.F. **Readings in Urban Geography,** University of Chicago Press, Chicago, 1959.
27. Mumford, L., **Culture of Cities,** Mc Millan & Co., London, 1958.
28. Gist, N.P. and Fava, S.W., **Urban Society,** Corwell, New York, 1964.

Paper-IX (iii) Geography of Rural Settlements

Max. Marks : 100

Time : 3 Hrs.

Section-1

- a) Meaning, Objectives and Scope of Settlement Geography: Source of Information and Problems in their use; Census Records, Archives and Archaeological Sources, Literacy Source Place names, Field work and use of Maps.
- b) Observations of the Role of Geography and History in the development of a Methodology for Settlement analysis; (i) Descriptive Settlement Studies, (ii) Analytical Settlement Studies (iii) Comprehensive Methodology, and (iv) Classifying System.
- c) Histogenesis of Settlements; Evolution, Growth and Spatial diffusion of Settlements.
- d) Morphogenesis of Settlements; Territorial bases of Rural Settlement, Distribution of Rural Settlements with special reference to size, form and location.

Section-2

- a) Patterns and Types of Rural Settlements and their causes and effect Associations.
- b) Morphology of Rural Settlements: House Types in Various Ecological settings, a Detailed Study of House Types in some regions of India.
- c) Functional Classification of Rural Settlements.
- d) Rural Service Centres- their Nature and Hierarchy.

Section-3

- a) Origin Evolution and Size of Clan Settlements in a part of Middle Ganga Valley.
- b) Spatio -Temporal Analysis of Clan Settlements-A Case Study.
- c) Distribution of Castes and their ranking in some parts of India.
- d) Socio-Spatial Organisation of Clan Settlements in Middle Ganga Valley.

Section-4

- a) An Analysis of Pattern, Causes and Consequences of Rural depopulation in India.
- b) Thematic Frameworks of Rural Settlements in Research Perspective.
- c) Planned Process of Transformation of Space through Selected Sample Studies.
- d) Objectives and Achievements of 'The Five Year Plans' in India with regard to rural developments.

Note :The question paper shall contain eight questions, including 2 questions from each section. Candidates shall attempt four questions in all selecting atleast one question from each section.

Books Recommended

1. Ambrose, P. Concept in Geography: Settlement Patterns, Longmans, 1970.
2. Alber, R.J.S. Adams and P. Gonld, Spatial Organisation, Englewood Cliffs, 1971.
3. Hudson, F.S., Geography of Settlements, Macdonald and Evan, 1968.
4. Mukherji, R.K. Man and His Habitation, Popular Prakashan, Bombay 1968.
5. Singh, R.L. and K.N. Singh Readings in Rural Settlements (eds.), NGSI, B.H.U., Varanasi, 1975.
6. Singh, R.L. Rural Settlements in Monsuri Asia, NGSI, BHU Varanasi, 1977.
7. Mitra, A. Reporton House Type and Village, Settlement Pattern in India, Census of India, 1966.

8. Clont, H.D. Rural Geography, An Introductory Survey, Preamon Press, Oxford, 1984.
9. Pacione, M. Rural Geography, Harper and Row, London, 1984.
10. Hoggart, K. and Botter, H., Rural Development : A Geographical Perspective, Gloom Helm, London, 1987.
11. Hoggart, K. "Not a Definition of "Rural" Area, Vol. 20 No. 1 1988 pp. 35-40.
12. Clark, G., "Development in Rural Geography", Area, Vol, 20 No. 1 1988, pp. 35-40.
13. Weekley, I., "Rural Depopulation and Counter Urbanisation : A Paradox, Area, Vol. 2, 1988 p. 127-34.
14. Ansari, S.H., & Co-author, 'Evolution and Spatial Diffusion of Sakarwar Clan Settlements in Zamamae Tehsil, Gazipur Distt. The Eastern, Anthropologist, Vol. 33 No. 3, 1980, pp. 241-253.
15. Rao, V.M. "Rural Dev. Personnel : Location Status and Dev. Characteristics" EPW. Vol. XVII, No. 42, 1982, p. 1691.
16. Ansari, S.H. Evolution and Spatial Organization of Clan Settlements, Concept Publishing Co., New Delhi, 1986.
17. Singh R.L. & R.P. Singh "Concept of Morphological Analysis : Some Theoretical Postulation" in Geopcientists Commanneration Volume(ed.) R.L. Singh, R.S. Mittal and S.L. Kayastha NGJI, Vol. 24, ch. ,3-4 1978 pp. 1-16.

18. Mandal, R.B. Land Utilization : Theory and Practice, Concept Pub. Company, New Delhi, 1982.
19. Mandal, R.B. Introduction to Rural Settlements, Concept Pub. Co., New Delhi.
20. India : A Reference Annual, 1983, Publications Division, Ministry of Information and Broadcasting, Govt. of India, Patiala House, New Delhi.
21. Chisolm, Michael, Rural Settlements and Landuse, Hutchinson University Library, London, 1970.
22. Eidl, Robert C., et., al., Man, Culture and Settlement NGSi Varanasi, 1977.
23. Grover Neelam Rural Settlements: A Cultural Geographical Analysis, Inter-India Publications Delhi, 1985.
24. Sharma, R.C. settlement Geography of the Indian Desert, Kumar Brothers, Allahabad, 1972.
25. Ansari, S.H. 'Spatial Diffusion of Gautam Rajput Clan Settlements in Ghazipur Distt., 'The Geographer, Vol. XXIV No. I, 1982 p. 31-41.
26. Amani, K.Z. and S.H. Ansari 'Spatial Diffusion of Kinwar Bhumihar Clan Settlements in Ghazipur Distt., The Geographer, Vo. XXIV No. 1, 1982, p. 31-40.
27. Ansari, S.H. 'Social Status of Kamsar Pathan among other Social groups : A Geographical Study', The Indian Geographical Journal, Vol. 60, 1985.
28. Singh, Ram, Bali Rajput Clan Settlements in Varanasi Distt. NGSi, 1975.
29. Singh, R.P.B. 'Morphogenesis of Rural and Scope; Care of Saran plain in Man, Culture and Settlements, Festschrift to Prof. R.L. Singh eds. R.C. Didt, K.N. Singh & RPB Singh, NGSi, Pub. No. 17, 1976.

Paper-IX(iv) Agricultural Geography

Max. Marks : 100

Time : 3 Hours

Section-I: Introduction to Agricultural Geography

Definition, Nature, Scope and Significance of Agricultural Geography, Geographical Approaches to the Study in Agricultural Geography (Commodity, Deterministic, Systematic, Regional, Systems, Behavioural and Eco-system Approaches) Origin and Development of Agriculture, Diffusion of Crops (Main Cereals, Pulses, Oilseeds and Crops).

Section-II : Factors influencing Agricultural Patterns and Systems in Agriculture

Physical Factors (Terrain, Climate, Soils) Institutional Factors (Land Holding, Farm Family Structure, Caste, Religion, Infrastructural Services), and Technological Factors (Irrigation, Mechanical Inputs, Bio- Chemical Inputs, Demographic inputs) Influencing Agriculture; Agricultural Systems of the World Whittlessey's Classification of Indian Agriculture.

Section-III Regionalisation of Agricultural Patterns

Concept of Agricultural Region, Techniques- Normative, Empirical, Single Element Statistical, Multi-element (Cluster and Combinational Analysis) Techniques, Agricultural Regionalisation based on Productivity Measure-Indices of Agricultural Efficiency, Concentration and Diversification. Levels of Agricultural Productivity in India (Scheme of Bhalla and Alagh.)

Section-IV : Model of Agricultural Location

The Nature and Need of Models, Classification of Models. The Working Classification of Models of Agricultural Activity-Economic Models (Ven. Thuren's & Model Input Output Behavioural Model. Diffusion Model), Descriptive Models (Experimental Models, Conceptual Models), Mathematical Models, Land Capability Models.

Note : The question paper shall contain 8 questions in all including two questions from each section. Candidates are required to attempt 4 questions in all selecting one question from each section.

Books Recommended :

- Simpson, F.S. (ed.) Agricultural Geography, I.G.U. Symposium, 1964.
- Symer, S.L. Agricultural Geography, G.Bell and Sons, Ltd. London, 1965.
- Gregor, H.F. Geography of Agriculture, Prentice Hall, Inc. 1920.
- Hussian, M. Agricultural Geography, Concept Pub. Co. New Delhi, 1970.
- Sauer, C.O. Agricultural Origins and Dispersals : The Domestication of animals and Foodstuffs. M.I. T. Press, 1969.
- Grigg, D.B. Agricultural Systems of the World : An Evolutionary Approach, 1977.
- Singh, B.B., Krishi Boogol (in Hindi), Tara Publications, Varanasi, 1979.
- Weaver, J.C., 'Crop Combination Regions in the Middle West'.
Geographical Review, Vol. XLIV, No. 2 1954 pp. 173-200
- Klages, K.H.W., Ecological Crop Geography, 1958.
- Doi, K. The Industrial Structure of Japanese Prefatures.
Proceedings of I.G.U., Regional Conference in Japan, 1957 pp. 310-316.
- Stamp, L.D., The Land of Britain-Its Use and Misuse, 3rd edition, Longmans, London, 1962.
- Graham Edward, H., Natural Principles of Land use, Oxford University Press, New York, 1944.
- F.A.O., A Framework for Land Evaluation, Soil Bulletin No. 32, 1976.
- Mohmmad, N., Agriculture Land Use in India: A Case Study, Inter-India Publications, Delhi, 1978.

- Heinz, H.I. Hein's Handbook of Nutrition, London, 1959.
- F.A.O. Food Consumption Tables for International Use, 1964.
- Andreas, B., Farming, Development and Space: A World Agricultural Geog., Water de Grytar, New York, 1981.
- Bansal, P.C., Agricultural Problems of India, Vikas New Delhi (Latest edition).
- Sen Gupta P. and G., Economic Regionalisation of India, Problem and Approaches Census of India, 1961, N.D., 1968.
- Singh, J., Agricultural Geography, Tata Mc. Graw Hill Publishing Co. Ltd., New Delhi, 1974.
- Hussain, M., Agricultural Geography, Inter-India Publications New Delhi, 1986. (First Published in 1979).
- Sharma, B.L., Agricultural Geography, Rawat Publications, Jaipur, 1990.

Paper- IX(V) Regional Planning

Max. Marks :100

Time : 3 Hours

Section-I

The Concept Objectives, Principles and Techniques of Regional Planning, Role of Geography in Regional Planning; Survey for regional planning-regional, Techno-economic and diagnostic surveys; Planning regions concepts, Criteria, democratisation and hierarchy; Planning Regions in India.

Section-II

National Development and Regional planning; Aspect of Social Environmental and Grassroot Approach in Planning; multi-level planning, Micro planning and sub-regional planning; Regional planning Legislation in India; Directions of Regional Policy in India.

Section-III

Nature and Scope of Tour Planning; Preparation of a Tour Plan; Formulation of Policies and zoning; locational and space requirements of residential work and recreational area; planning for transport and public utility services.

Nature and Scope of Country Planning; Rural Landuse Planning; Planning for Social and Economic Infrastructural Facilities and Public Utilities-Drinking Water, Irrigation, Flood Control and Soil Conservation.

Note: There shall be eight questions in all consisting 3 questions each from Section I & III and I question from Section II. Candidates shall answer four questions in all selecting atleast one question from each section.

Reading List :

1. Alden, J. and Morgan, R.(1974) Regional Planning-A Comparative Leonard Hill Books, Beds.
2. Bhat, L.S.(1972) Regional Planning in India, Statistical Publishing Society, Calcutta.
3. Bhatt, L.S. et al (eds.1982) Regional Inequalities in India Society for the Study of Regional Disparities, New Delhi.
4. Blunden, J. et al (1973) Regional Analysis and Development, Harper & Row, London.
5. Misra, R.P. et al (eds. 1974) Regional Development Planning in India, Vikas, New Delhi.

Paper IX (vi) Biogeography

Max. Marks : 100

Time : 3 Hours

Section-I

- a) Biogeography-Its Nature, Function and Scope.
- b) Biosphere-Its Nature and Definition; the limit and composition; Animate Life; The Fundamental Characteristics of Animate Life. The Biopheric Cycle.
- c) Ecosystem-Its Concept, Scope and function of Eco-system Pond and Forest. The organism and its Ecosystem.

- d) **The Organic Scale: Its Classification, Distribution and relationship within and between species. The inheritance of biological characteristics.**

Section-II

- a) **The Evolution of Living Things: The plants and Animal Kingdoms; Theory of Evolution, Evolution of Life.**
- b) **Factors influencing distribution of Plants and Animals (i) Evolutionary (ii) Innate (iii) Environmental-(a) Area (b) Climate (c) Soil (iv) Geological Factors.**
- c) **The Biomes : The distribution of major terrestrial biomes (i) Tundra (ii) Taiga (iii) Temperate (iv) Tropical rain forest (v) Temperate grass land (vi) Savannah land (vii) Deserts (viii) Fresh-water biomes (ix) Marine biomes-(a) The Oceanic biomes (b) The Rocky shore biomes (c) The Muddy or sand shore biomes.**

Section-III

- a) **Zoogeography:- Its Concepts, Field and Scope**
- b) **Classification of Animals; differences between Plants and Animals.**
- c) **General character of Animal life : (i) Animal (ii) Specialized environments adaptation (iii) Form and colour (iv) Luminiscence in Animal.**
- d) **Zeo-geographical Realms and Regions : Its concept and classification.**

Section-IV

- a) **Animal and Man : Distribution (i) Accidental (ii) Chance Introduction (iii) Deliberate Introduction (iv) Domesticated Animals.**
- b) **The extinction of species-its causes.**
- c) **Animals in the Service of Man :(i) Transportation (ii) Biological Control.**
- d) **Effects of climate and vegetation on Animals.**

- e) Man and his Environment : Environmental improvishment and destruction; (i) Land spoilation (ii) Water pollution (iii) Atmospheric pollution (iv) Plant Life (v) Animal Life
- (f) Conservation : Its definition, need and the strategy.

Note :The question paper shall contain eight questions in all including 2 questions from each section. Candidates shall attempt 4 questions in all, selecting one question from each section.

Books Recommended :

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| 1. | Robinson, H. | Biogeography : ELBS, Mc Donald Evans, London, 1982. |
| 2. | Simmons, I.G., | Biogeography : Natural and Cultural, Duxbury Press, North Scituate, Massachusetts, 1979. |
| 3. | C.B. Cox, I.N. Healey & P.D. More, | Biogeography : An Ecological and Evolutionary Approach, II edn. ELBS, 1976. |
| 4. | Newbigin, M.I., | Plant and Animal Geography, Matheun & Co. Ltd., 1968. |
| 5. | Barry, C., | Biogeography-An Ecological and Evolutionary Approach, Cox Blackwell, Oxford, 1977. |
| 6. | Joy, T., | Biogeography : Study in Plants in Ecosphere, Diver and Boyd, Edinborough, 1977. |
| 7. | Martin, C., | <i>Plant Geography</i> , Matheun, London, 1975. |
| 8. | Simmons, I.G., | Biogeographical Processes, George Allen and Unwin, London. |
| 9. | Gleason, H.A. and Crowquist, A. | The Natural Geography of Plants, Columbia University Press, New York, 1964. |
| 10. | Eyre, S.R., | Vegetations and Soils-A World Picture, Aldine Publishing, Chicago, 1963. |

11. Darlington, P.J., Zoogeography : The Geographical Distribution of Animals, Wiley, New York, 1957.
12. Danserean, P.M. Biogeography : An Ecological Perspective, Ronalds Press, New York, 1957.

Paper-X (Part-A) Field Method of Investigation in Geography

Max. Marks : 50

Time : 3 Hrs.

1. Logic and the Method of Science : What is scientific method, its limits and value; Hypotheses formulation and conditions Facts and Hypotheses; classification and definition-significance nature and Rules the predicables, Division and Classification; measurement purpose and formal conditions, Numerical laws and Derived measurement; logical fallacies, Sophistical refutations.
2. Sampling : The idea and advantages of sampling, sampling distribution and standard errors, types of sampling design (random, stratified, cluster and multi stage, area sampling, multiphase sampling replicated quote, penal and longitudinal) sample size.
3. Methods of collecting Information(a) was of documentary source, Introduction to Nature and availability of Socioeconomic data of India (Census, NSS, Agricultural and Industrial Statistics, Health and Social amenities), use of maps, (b) Observation participants and Non-Participants; (c) Questionnaire schedule and interview; (d) Processing of data editing, coding and tabulation.

Note : The question paper shall contain eight questions in all. Including three questions each on section 1 and 3 and two questions in all selecting atleast one question from each section.

Books Recommended :

1. Morris, Cohen & Ernest, An Introduction to Logic and Scientific Methods, Allied, New Delhi, 1970 (Reprint).

2. Clause, M. and G. Kelton Survey Methods in Social Investigation ELBS : London, 1971.
3. Paulen, B. Young, Scientific, Social Surveys and Research prentice Hall, India, New Delhi (1982) Reprint.
4. Moonis, Raza, S. Naqvi and J.Dhar Source of Economic and Social Statistics of India, Eureka Publication, 1978.
5. National Seminar on Social Statistics in India, Allied, New Delhi, 1976.

Paper-X (Part-B) Parctical Geography

Max. Marks : 50

Time : 3 Hours

A. Lab Work

24 marks.

Slope Analysis-Gradient & Slope, Significance and Calculation of Gradients, scale of slope; slope analysis by Wintworth's, Smith's, Henry and Raiz's and Robinson's methods.

II-Air photo Interpretation and Remote Sensing.

- a) Development of Air photo interpretation technique; application of the technicque in Geography; types of air photographs and their application to particular situations; elements of objects identifications photo Mosaics and their comparision with their topographical maps;
- b) Identification and Mapping of elements, natural and cultural landscape : Natural landscape-Topography drainage surfacial material and vegetation; cultural landscape settlements : transportation lines; landuse and field patterns;
- c) Development of remote-sensing techniques and their application in geography. complimentarity of Imageries and air photos.

Note : The paper shall contain six questions in all-two questions on section-I and four questions on section II. Candidates shall have to attempt three questions in all selecting one question from section I and two questions from section II.

B. Record Work

16 marks

C. Viva-voce

10 marks

Books Recommended :

1. Monkhouse, F.J. and H.R. Wilkinson, Maps & Diagrams, Methuen London, 1976.
2. Singh R.L. Map Work and Practical Geography, Kalyani, Delhi.
3. Sharma, J.P. Practical Geography (in Hindi) Rastogi and Co., Meerut, 1987.
4. Hira Lal, Fundamentals of Practical Geography (in Hindi) Kitab Ghar, Kanpur, 1982.
5. American Society of Photogrammetry (1966) Manual of Photogrammetry (3rd edition), Virginia.
6. American Society of Photogrammetry (1975) Manual of Remote Sensing Virginia.
7. Avery, T.E. (1962) Interpretation of Aerial photographs Burgess Publishing Co., Minneapolis.
8. Sabin, F.F. (Jr.) Remote Sensing : Principles and Interpretation, W.H. Freeman and Co., New York.
9. Tomar M.S. and A.R.Maslekar, (1974) Aerial Photographs in Landuse and Forest Surveys, Jugal Kishore & Co. Dehradun.
10. Campbell, James, B. Mapping the Land-Aerial Imagery for land use information, Scientific Publishers, Jodhpur, 1987.
11. Robinson, Elements of Cartography.
12. Dickinson, G.C., Maps and Airphotographs, Arnold Heinemann.