

SYLLABUS OF GEOGRAPHY

MA/Msc.1

In MA/Msc. previous year of geography there shall be four theory paper carrying 100 marks each and one practical cum filed work carrying 100 marks. Students have to pass theory and practical separately. Passing marks in theory and practical is 36%.

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|-------------|--------------------------------------|-----------|
| Paper I : | Geomorphology | 110 marks |
| Paper II : | Economic Geography | 100 marks |
| Paper III : | History and Geographical Thought | 100 marks |
| Paper IV : | Ecology and Environmental Management | 100 marks |

GEOGRAPHY

MA/MSc. Part I

PAPER-I GEOMORPHOLOGY

Unit 1 : Nature and scope of the Geomorphology, Fundamental concepts- Geological structures and landforms. uniformitarianism, multicyclic and ploygenetic evolution of landscapes, concept of threshold. Environmental change-climatic change and geochronological methods-documentary evidence, artifacts, major horizons, dendrochronological, pollen, thermo luminescence.

Unit 2 : Earth movements-epeirogenic, organic and cymatogenic earth movements. Forces of crustal instability, isostasy, plate tectonics, semicity, vulcanicity, orogenic structures with reference to the evolution of the Himalaya.

Unit 3 : Exogenic Processes : Concept of gradation, agents and processes of gradation, causes, types and classification of the weathering, mass movement erosional, and depositional processes and resultant landforms and soil formation. Slope evolution, downwearing, parallel retreat and slope replacement models.

Unit 4 : Geomorphic processes, dynamics of fluvial, glacial, Aeolian, marine and Karst processes and resulting landforms' complexities in geomorphological processes. Erosions surfaces-techniques of identification and correlation.

Unit 5 : Applied Geomorphology- Application of gemorgphic mapping terrain evaluation. Digital Elevation Model (DEM) and Trianguled Irregular Network (TIN) unit, land capability and land suitability

classification, hydro-geomorphology, urban geomorphology, Environmental Geomorphology, geomorphic hazards.

SUGGESTED READING:-

1. Chorley, R.J. Spatial Analysis in Geomorphology, Methuen London, 1972.
2. Cooke, R.U. Geomorphology in Environmental Management—A introduction Clarendon Press, Oxford, 1974.
3. Dury, G.H. The face of the Earth, Penguin Harmondsworth, 1959.
4. Fairbridge, R.W. Nature of the Environment, Reinholdts, New York, 1968.
5. Goudie, A. The Nature of the Environment, Oxford & Blackwell, London, 1993.
6. Garner, H.F. The origin of the landscape—A Synthesis of Geomorphology, Oxford University press, London, 1974.
7. Mitchell, C.W. Terrain evaluation, Longman, London, 1979.
8. Oller, C.D. Weathering, Longman, London, 1973.
9. Pitty, A. F. Introduction to Geomorphology, Methuen, London, 1971.
10. Stoddart, D.R. (ed.) Process and Form in Geomorphology, Routledge, New York, 1996.
11. Sinner, B. J. & Porter, S.C. The Dynamic Earth John Wiley, New York, 1995.
12. Sparks, B. W. Geomorphology, Longman, London, 1960.
13. Sharma, H.S. (ed.) Perspectives in Geomorphology, Concept, New Delhi 1980.
14. Singh, S. Geomorphology, Prayag Publication, Allanaabad, 1988.
15. Thornbury, W. D. Principles of Geomorphology, John Wiley, New York, 1960.

GEOGRAPHY

M.A./M.Sc.

Paper-II ECONOMIC GEOGRAPHY

Unit 1 : Scope, content and recent trends in economic geography, relation of economic geography with economics and other

branches of Social Sciences location of economic activities and spatial organization of economics. Classification of economics; sectors of economy (primary, secondary and tertiary).

Unit 2 :

Factors of location of economic activity : physical, social, economic and cultural, Concept and techniques of delimitation of agricultural regions, crop combination and diversification- Von Thunen's model its modifications.

Unit 3 :

Classification of industries: Resource based and footloose industries, Theories of industrial location-weber, Losch and Isard; Case studies of selected industries Iron and steel, Aluminum, Chemical, Oil Refining and Petrochemical, Engineering, Textile etc.

Unit 4 :-

Modes of transportation and transport cost; accessibility and connectivity : international, inter and intraregional; comparative cost advantages. Typology of markets, market network in rural societies, market system in urban economy, role of market in the development of trade and commerce.

Unit 5 :

Economic development of India, regional disparities, impact of green revolution on Indian economy, Globalization and Indian economy and its impact on environment.

SUGGESTED READING:-

1. Berry, J. L. Geography of Market Centre and Retail Distribution Prentice Hall, New York, 1967.
2. Chatterjee, S. P. Economic Geography of Asia, Allied book Agency, Calcutta, 1984.
3. Chorley, R. J. & Hagget, P (ed.) Network Analysis in Geography, Arnold, 1969.
4. Dreze, J. and Sen. A. India-Economic Development and social Opportunity, Oxford University Press, New Delhi, 1996.
5. Eckarsley, R. (ed.) Markets, the State and the Environment, McMillan, London, 1995.
6. Garnier, B. J. and Delobez, A. Geography of Marketing, Longman, London, 1979.
7. Hamilton, F.E. I. Spatial Perspectives on Industrial Organisation and Decision Making, John Wiley, New York, 1974.
8. Hamilton, (ed.) Resource and Industry, Oxford University Press, New York, 1992.

9. Hurst, E. Transport Geography - Comments and Readings, McGraw Hill, New York, 1974.
10. Morgan, WB and Muntion R.J.C. Agricultural Geography, Methuen, London, 1977.
11. Pachuri, R.K. Energy and Economic Development in India, Prager, New York 1977.
12. Robertson, D. (ed.) Globalization and Environment, E. Elgar Co., UK., 2001.
13. Rostow, W.W. The Stages of Economic Growth, Cambridge University press London, 1960.
14. Singh, J. and Dillion. S.S. Agricultural Geography, McGraw Hill, India, New Delhi 1984.
15. Symons, L. Agricultural Geography, Bell and Sons, London, 1972.
16. Wheeler, J. O. Economic Geography, John Wiley, New York, 1995.

MAMSc. Part I

PAPER III HISTORY OF GEOGRAPHICAL THOUGHT

- Unit 1 :** The field of geography; its place in the calssification of sciences; geography as a social science, and natural science, selected concepts in the philosophy of geography, distributions; relationships, interactions; areal differentiation and spatial organization.
- Unit 2 :** Dualisms in geography; systematic & regional geography; physical & human geography. Systematic geography & its relation with systematic sciences and with regional geography. The myth and reality about dualisms. Regional geography: concept region, regionalization and the regional method.
- Unit 3 :** Scientific explanation : routes to scientific explanation (inductive/ deductive); types of explanation; cognitive description; cause and effect, temporal, functional/ecological systems.
- Unit 4 :** Laws, theories & models, the quantitative revolution, responses to positivism, behaviorism, development.
- Unit 5 :** Historical development- Contribution of different scholars during ancient, medieval modern period. Geography in the 20th Century; conceptual and methodological developments and changing paradigms; status of Indian Geography, future of geography; task ahead relating to development of geographic thought with special reference to changing views on man-environment relationship.

SUGGESTED READING:-

1. Abler, Ronald; Spatial Orgaization : The Geographer's view of the World, Prentice Hall, N. J., Adams, John S. Gould, Peter 1971.
2. Ali S. M. The Geography of Purans, Peoples Publishing House, Delhi, 1966.
3. Amedeo, Douglas An Introduction to Scientific Reasoning in Geography, John Wiley, USA, 1971.
4. Dikshit, R.D. (ed.) The Art & Science of Geography, integrated Readings, prentice of India, New Delhi, 1994.
5. Hartshorne, R Perspective on Nature of Geography, Rand McNally & Co., 1959.
6. Hussain M. Evolution of Geographic Thought, Rawat Publication, Jaipur 1984.

GEOGRAPHY

MAMSc. Part I

PAPER IV ECOLOGY AND ENVIRONMENTAL MANAGEMENT

- Unit 1 :** Definition, aim and scope of ecology fundamental principles of ecology, concept of ecosystem- habitat and biome, Ecosystem as logical outcome of geographical studies value of ecosystem approach in geography.
- Unit 2 :** Eco-system as the fundamental ecological unit food chains and food webs and triphic levels.
- Unit 3 :** Eco-system : structure and function, abiotic an biotic components, Ecological pyramids, Ecological niche energy flow in ecosystem, Nutrients biogeochemical cycles hydrologic cycle, Atmospheric cycles the carbon and nitrogen cycle, Lithospheric cycle the Phosphorous and sulphur cycles, productivity and equilibrium in the eco-system, bio-sphere as a global ecosystem, unit and diversity in the biosphere.
- Unit 4 :** Environmental management-meaning approaches, principles

and strategies, Ecocodevelopment and eco-system management. Managerial aspect of energy, forest soil water and wild life resources, Environmental Management and ecocodevelopment policies and programmes in India.

SUGGESTED READING :-

1. Bakin Daniel B. & Environmental Studies, Charles E. Merrill Keller Edward Publishing Co. Cloumbus 1982.
2. Strahler A. H. & Geography and Man's environment John Strahler A.N. New York, 1977.
3. Kupchells, Charles, E. Environmental Allyn & Bacon London. & Hyland, Margret, G.
4. Sivastay, V. K. & Parayavaran Avam Paristhiti. Rao, B.P.
5. Patel, B. (ed.) Management of environment, Hilley Eatern Ltd., New Delhi, 1980.
6. Kayastha S. L. (ed.) Special Issue on Environmental perception and problem.
7. Singh, H. A. Environmental Management.
8. Reid, K. et. Al. (ed.), Man, Nature & Ecology, Double day & Co. New York. 1974.
9. Myers, B. C. The Environmental Crises. Will We survive Prentice Hall 1972.

GEOGRAPHY

MA/MSc. Part I

PAPER PRACTICAL

The cartographic-cum-field work by carry 100 marks. There will be a board of two examiners, one external and other internal. The examination will be conducted on the date mutually agreed upon by the examiners concerned.

For cartographic work, the paper will be set on the spot by the examiners, which will be of three hours duration and the candidate shall be required to attempt three question, one from each sub-section having at least two questions.

SECTION A :- THEMATIC MAPPING :

20

- a. Presentation and drawing of the geomtric features- Drainage texture, drainage density, slope analysis, water surplus, rainfall dispersion.
- b. Presentation resources and land use- isopleth, choropleth, choromatic, calculation land capability and its presentation.

SECTION B :- Presentation of socio-economic data by multiple

dot method, sphere emthod Pyrami

SECTION C :- Geological maps

cross section of geogogical area folded, 10

SECTION D :- Surveying : Intimate knowlege of one construction and adjustment of Theodolite and sextant-calculation of Horizontal and vertical distances, with Theodlile calculation of horizontal and vertical series.

SECTION E :- A brief analytical tour report on those areas where multiple geo-socio economic variation exist.

Or

Collect demographic social and economic data of the village and prepare report based on the result of land use and socio. economic enquires of the house holds prepare a field survey report. Photographs sketches in addition to maps and diagram may supplement the report. 20

SECTION F :- Record and viva-voice

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NOTES :- The expenditure on TA and DA of teachers and attendants participating in the study Tour shall be borne by the college. For participating int he study tour necessary financial help may be contended to the students out of the laboratory fund realized from them.

Books Recommended :-

1. Monkhous and Maps Diagrams Wilkinsor
2. Raize Principles of cartography
3. Davis and Foots Surveying
4. Kanethar & Kulkarni Surveying
5. Singh, R. & Manchitra That Pryogatmak Bhoogol. Kanaujiya L.R.
6. Singh, R.L. Elements of practical geography.
7. Sharma, J.P. Prayogatmak Bhoogol.
8. Mishra, R.P. & Fundamental of cartography. Ramesh, A.
9. Robinson, A. R. & Elements of Cartography. others