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%.

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 ploygenentic 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 gemorphological 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 gemorphology, Enviornmental Geomorpholgy, geomorphic hazards.

SUGESSTED READINAG :—

1. Chorley, R.J. — Spatial Analysis in Geomorphology, Methuen London, 1972.
2. Cooke, R.U. and Doornkamp — Geomophology in Environmental Management– A introduction Clarendon Press. Oxford, 1974.
3. Dury, G.H. — The face of the Earth, Penguin Harmondsworth, 1959.
4. Fairbriedge, R.W. — Nature of the Environment, Reinholdts, New York, 1968.
5. Goudie, A. — The Nature of the Enviromnement, 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. Ollier, C.D. — Weathering, Longman, London, 1973.
9. Pitty, A. F. — Introduction to Geomorphology, Methuen, London, 1971.
10. Stoddart, D.R. (ed.) — Process and From 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 Geomophology, Conpcept, Concept, New Delhi 1980.
14. Singh, S. — Geomorphology, Prayag Publication, Allanabad, 1988.
15. Thornbury, W. D. — Principles of Geomorpholgy, John Wiley, New York, 1960.

GEOGRAPHIY

M.A./M/Sc.

***Paper*-II ECONOMIC GEOGRAPHY**

Unit 1 : Scope, content and recent trends in economic geography, relation of economic geography with econmics 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 indurstries, Theories of industrial ocation-weber, Losch and Isard; Case studies of selected Industries Iron and steel, Aluminum, Chemical, Oil Refining and Petrochemical, Engineering, Texitle 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 REACING :—

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 Munton 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.

MA/MSc. Part I

PAPER III HISTORY OF GEOGARPHICAL 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 philosopy of geography, distributions; relationships, interactions; areal differentiation and spatial organization.

Unit 2 : Dualisms in geography; systematic & regional geopraphy; 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 explantion (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; Adams, John S. Gould, Peter Spatial Orgaization : The Geographer's view of the World, Prentice Hall, N. J., 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 Mcnaily & Co., 1959.
6. Hussain M. Evolution of Geographic Thought, Rawat Publication, Jaipur 1984.

GEOGRAPHY

MA/MSc. Part I

PAPER IV ECOLOGY AND ENVIRONMENTAL MANAGEMENT

Unit 1: Definition, aim and scope of ecology fundamental principles of ecology, concept of ecosytem-habital and biome, Ecosystem as logical outcome of geographical studies value of ecosystem approach in geography.

Eco-system as the fundamental ecological unit food chains and food webs and triphic levels.

Unit 2 : Eco-system : structure and function, abiotic an biotic components, Ecological pyramids, Ecological niche energy flow in ecosystem, Nutrients biogeochemical cycles hodrologic chcle, 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 golbal ecosystem, unit and diversity in the biosphere.

Unit 3 : Ecological changes through space and time, evoloution and successional development in ecosytem special distribution of ecological properties, man induced ecological changes with particular reference to the impact of resource extraction technology (mining) resource conversion technology (transport and communication and space intensify technology (Urbanization) and modern technological revolution (*viz.* green revolution).

Unit 4 : Environemental management-meaning approaches, principles