

SEMESTER 1

**M.AGEO101
GEOGRAPHY**

End semester: 60

Mid sem : 20

Quiz : 20

Total marks : 100

Paper – I Evolution of Geographical Thought

UNIT 1 Definitions, scope, nature and purpose of Geography (including concepts) and its relation with other social sciences. Post War trends, Inter-disciplinary Trends, Recent trends in Geography. Development of Geography in India.

UNIT 2 Pre-Scientific Geographical ideas in Ancient and Medieval times : Indian influences. Geography of the Vedic Age and Geography of the Purana's (First four chapters of Geography of Purana's by S.M)

UNIT 3 Contribution by Greek, Roman and Arab Geographers (Al-Baruni and Ibn-I-Batuta). The Emergence of scientific Geography in the 18th and 19th centuries.

UNIT 4 Founders of modern Geography-Humboldt, Ritter, Leaders of the first generation after Ratzel, Richthofen, Hettner, Contribution of Vidal-de-la-Blache and Brunhes.

**M.AGEO102
GEOGRAPHY**

End semester: 60

**Mid sem : 20
Quiz : 20
Total marks : 100**

Paper – II Advanced Physical Geography

UNIT 1 Geomorphology: Fundamental concepts; Factors controlling landform development; Endogenetic and Exogenetic forces; Denudation process: Weathering and Erosion. Geosynclines; Mountain Building; Continental Drift and Plate Tectonics.

UNIT – II Concept of Geomorphic Cycle ; Landforms associated with fluvial, glacial, arid, coastal and Karst topography. Slope-forms and processes; Environmental and Applied Geomorphology.

UNIT – III Climatology : Composition and Structure of the Atmosphere; Insolation; Heat budget of the earth; Distribution of temperature; Atmospheric pressure and general circulation of winds; Monsoons and jet streams.

UNIT – IV Stability and instability of the atmosphere; Air-masses; Fronts; Temperate and Tropical cyclones; Types and distribution of precipitation; Classification of world climates: Kopen's and Thornthwaite's schemes; Hydrological Cycle; Climate change and Global warming.

UNIT – V Oceanography : Origin of ocean basins; Ocean Bottom relief of Indian, Atlantic and Pacific Oceans; Ocean deposits; Coral reefs; Temperature and Salinity of the Oceans; Density of sea water; Tides and ocean currents; Sea – level changes; Ocean's Mineral wealth.

Books Recommended :

1. Ahmad, E.: Coastal Geomorphology of India, New Delhi.
2. Wooldridge & Morgan : An Introduction to Geomorphology, Longmans,

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**M.AGEO103
GEOGRAPHY**

End semester: 60

Mid sem : 20
Quiz : 20
Total marks :100

Paper – III Principles and Theory of Economic Geography

UNIT – I Nature, Scope and Methods of Economic Geography, Concept of Economy, Simple model of economy, Impact of modern economy on environment. Spatial structure of economy.

UNIT – II Types of Agriculture – Subsistence agriculture, Tropical plantation, Mediterranean agriculture, Mixed farming, Stock raising and its products. Energy Resources of the world – Coal, Petroleum, Hydroelectricity and Atomic power. Energy Crisis, Non-conventional Sources of Energy.

UNIT – III Locational analysis and spatial distribution of Iron and Steel, Cotton textile, Chemical, Paper and pulp industries. Development of marketing systems in the world and WTO.

UNIT – IV Location and interaction in a simplified economic landscape. Spatial variation in transport cost. Spatial variation in production cost. Demand scale and agglomeration.

UNIT – V Decision making process – a behavioural approach. Concept of economic region- formation and types. Economic regions of World and World Trade Route India.

Books Recommended: 1.Lloyd & Dicken : Location in Space : Theoretical Approach to Economic Geography. 2. Mc-Cart & Lindeberg : A Preface to

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Paper – IV(a) Geography of Environment

UNIT – I Concept of environment and ecology, Nature and scope of the Geography of environment. Concept of ecology and eco-system-definition and elements, energy flow in eco-system.

UNIT – II Productivity in eco-system. Eco-cycles. Types of eco-system. Man-environment relationships, perception of environment and its quality. Degradation of Environment, Development vis-a-vis ecological crisis. Global Environmental Issues : Climate Change - Ozone depletion, Green House Effect and Global Warming, Desertification, Biodiversity.

UNIT – III Environmental Pollution – Water, Air, Noise, Soil and Radio-activity, causes, impact and measures of control with Indian examples. Population, Resources and Ecological crisis.

UNIT – IV Environment and quality of life. Environmental Management–Approaches, Management of forest, soil, wildlife, energy and mineral resources, Disasters & their management. Environmental Impact Assessment. Conservation of natural resources.

UNIT – V Sustainable development. Environmental policies and programmes (international and national). Environmental problems, planning and legislation in India.

Books Recommended :1. Batel, B. (Ed.) – Management of Environment, Wiby Eastern Ltd., New Delhi, 1980. 2. Desh Bandhu (Ed.) – Environmental Management, Indian Environment, Society,

SEMESTER 1

**M.AGEO105
GEOGRAPHY**

End semester:

20	Mid sem	:
20	Quiz	:
:100	Toatl	marks

Paper V- Advanced Geography of India

Unit - I Physiographic and Drainage systems. Soils, Vegetation, Origin and Mechanism of Indian Monsoon. Schemes of Natural Physiographic and Climate Classifications. Identification of Drought and Flood Prone Areas.

Unit -II Tribal areas and their problems, Population Growth, Distribution, Density, Sex Ratio and Literacy, Population problems and policies. Urbanization in India.

Unit -III Resources: conservation and utilization of land, mineral, water, biotic and marine resources. Agricultural land use pattern, Green revolution and its impact on Indian Agriculture. Agriculture infrastructure - Irrigation, Fertilizers and Seeds, Dry zone Agriculture. Agro-Climatic Regions of India.

Unit -IV Industry - factors of localization, classification and detailed study of the following-Iron and Steel, Cement, Fertilizer, Paper and Pulp and Sugar Industries. Study of the Network of Road, Railways, Airways and Water ways. Regional disparities in development in India.

Unit -v Geographical study of Rajasthan under the following heads: Relief, Climate, Vegetation, Soils, Agricultural development, Irrigation, Mineral and Power resources, Industrial development, Detailed study of the following regions - 1. Marusthali 2. Aravali 3. Eastern Plain 4. Hadoti Plateau

Books Recommended : Govt. of India : Five Year Plans of India. 2. Sharma & Coutinho : Economic and Commercial Geography of India, Vikas, Delhi. 3. Singh, R.L. : India: A Regional Geography, N.G.S.I., Varanasi, 1971. 4

SEMESTER 2

M.AGEO201
GEOGRAPHY

End semester: 60

Mid sem : 20

Quiz : 20
Total marks :100

- Agricultural Geography

Unit -I Agriculture - Concept, origin, dispersal and Development of agriculture through the ages in important agricultural areas of the world. Development of Agricultural Geography with special reference to India. Factors affecting Agriculture: Physical - relief, climate, soil, water, storage etc. Social - land ownership, land tenure and size of holdings. Economic - Input of human and animal power, irrigation and fertilizers, Mechanization etc Others - Financial management, Market system, Transport, Trade etc

. **Unit -II** Water - Water resources, quality of water for irrigation, water quality criteria, various methods of irrigation and their comparative advantages. Soil and water balance. Types of Agriculture - Shifting cultivation, Plantation agriculture, Mediterranean type, Collective and state farming, Extensive and Intensive agriculture, Dry farming and their characteristics.

Unit -III Agricultural Land Use: Concept, history, principles, objectives, policies and planning of land use surveys. Land Classification : need and basis of land classification - British pattern, American pattern, Indian pattern. Land Use Data : Sources, types, mapping and problems.

Unit -IV Models in Agricultural Land Use : concept, need and principles. Von Thunen's Agricultural Location Theory. Preparation and planning of detailed performas for land use surveys. 14 Measurements of the Levels of Agricultural Development : Concept and methodology - Agricultural regionalization -Concept, methods of delimitation (Including statistical methods). Agricultural Regions of the World (Whittlsey).

Unit -V Crop ranking, Crop combination regions - meaning and methodology (Detailed study of Kendal's, Weaver's, Doi's and Prof. S.M. Rafi Ullah's method). Cropping intensity, Crop diversification - methods and deductions. Agricultural efficiency -concept, methods of

measurement. Nutrition and balance sheet. Crop-land use and deficiency diseases.

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**M.AGEO202
GEOGRAPHY**

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Mid sem : 20

Quiz : 20

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Paper VI (b) - Industrial Geography

Unit - I Location factors in manufacturing, concept of optimum location. The Least Cost School and the Transport Cost School. The Market Areas School. The Marginal Location School. The Behavioral School.

Unit - II The Reduction of weight of Materials. The Copper Industry. The Aluminum industry. The Pulp and paper industry. The Cement Industry. New Trends in Industrial Geography. Testing Location Theory, Empirical Studies. Significance of Enterprise and Firm.

Unit - III Important Industrial regions of the World : select one each of U.S.A. and Federation of Independent states - Japan, Britain and West Europe. Important Industrial Regions of India. The Changing character of geographical concentration and impact of technological change, changing character of Industrial regions. Formation of Industrial Regions.

Unit - IV Study of the following regions. 1. The Hooghlyside Industrial Regions. 2. The Damodar Valley Industrial Region 3. The Ruhr Basin Industrial Region 4. The Great Lakes Industrial Region.

Unit-V Influence of power and Geographical Inertia in Manufacturing Industries. The Textile Industry. Multi-locational Industries-Iron and Steel, Aluminium, Oil Refining. Market Oriented Industries-Furniture, Textile Machinery. Footloose Industries-Automobile, Commercial Ship Building, Raw Material oriented Industries. The Locational importance of reduction in materials.

Books Recommended : 1. Llyod & Dicken : Location in Space : A Theoretical Approach to Economic Geography. 2. M.C. Cart & Limberg Hodder & Lec :

SEMESTER 2

**M.AGEO203
GEOGRAPHY**

End semester: 60

Mid sem : 20

Quiz : 20

Total marks :100

Paper VI(c) - Geography of Transport and Marketing

Unit - I Nature and Scope of Transport Geography, Transport as controller of economic activity, Models of transport development. Network Analysis, measurement of accessibility and Connectivity.

Unit -II Nature and Scope of Marketing Geography, Growth of Market centres in various parts of the world including India.

Unit - III Types of Markets, Regulated markets, Periodic Markets - Nature, Distribution, Commodity Structure and Social Importance

Unit - IV Market Morphology, Market Sphere of Influence, Agricultural Marketing,

Unit - V Behavioral Pattern of market place participants, Cartographic representation of Transport and marketing data.

Books Recommended: 1. Berry, B.J.L. : Geography of Market Centres & Retail Distribution, Prentice Hall, 1967. 2. Chorley, R.J. & Haggett, P.(ed.): Network Analysis in Geography, Arnold, 1969. 3. Garnier, B.J. & Delobez, A. : Geography of Marketing, Longman, London, 1995. 4. Hurst, E. : Transport Geography - Comments & Reading, McGraw Hill, 1974.

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**M.AGEO204
GEOGRAPHY**

End semester: 60

Mid sem : 20

Quiz : 20

Total marks :100

Paper VII (a) - Urban Geography

Unit -I Aims and scope of Urban Geography. Factors affecting the growth of towns during Neolithic period, Greek and Roman period, Dark Ages,

Medieval period, Renaissance period, Industrial Revolution and Modern times. Chief characteristics of the towns of each period.

Unit-II Trends of urbanization in the world. Urbanization in India since 1901 and its problems. Definitions of Urban centres. Chief characteristics of modern town, City Conurbation, Metropolis and Megalopolis.

Unit-III Spatial pattern and distribution of urban centres. Classification of cities. Urban Rank - Size relationship. The Basic and Non-Basic concept of urban economic functions and its application.

Unit- IV Urban Morphology, Unplanned and planned growth of town : Urban plans, Morphology of Indian cities, Market Morphology. Functional structure of towns-C.B.D., Residential areas, manufacturing areas and other functional areas. Models of urban structure. Central Place Theory.

Unit- V Centrifugal and Centripetal forces in Urban Geography, Development of suburbs, Rural-urban fringe, Satellite town, ring towns, Sphere of urban influence (Umland) and its delimitation. Principles of Town Planning -Preparation of a Master Plan with example of a Rajasthan town. Principles of Regional Planning.

Books Recommended: 1. Taylor, G. : Urban Geography, Methuen & Co., London. 2. Geddes : Study in City – Development. 3. Singh, R.L. : Banaras : A Study in Urban Geography, Students

SEMESTER 2

**M.AGEO205
GEOGRAPHY**

End semester: 60

Mid sem : 20

Quiz : 20

Total marks :100

Paper VII (b) - Geography of Population and Settlement

Unit - I Definition and scope of Population Geography. Theory and Biological Population Geography - Malthusian, Neo- malthusian and Optimum Population. Theory and Biological Population Census with

special reference to the Indian Census. Growth, Density and Distribution of Population in the world with special reference to India.

Unit - II Age and Sex Composition, Economic and religious Composition of Population with special reference to India, Rural and Urban Population and Urbanization, Internal and International Migration, Behavioral Migration Studies. The Population Policy of Govt. of India.

Unit - III Definition, Scope and Development of Settlement Geography. Theories of Settlement Geography. Causes of Origin of Settlement Types.

Unit - IV Site and situation of Rural and Urban settlements, Settlement pattern, Size and spacing of Rural and Urban settlements, Morphological characteristics of Rural and Urban settlements with special reference to India Sector. 19

Unit - V Concentric zone and multiple Nuclei Models of Urban growth. Problems of Urban housing and emergence of status. Books Recommended : 1. Clark : Population Geography 2. Jones : A Population Geography 3. Trewartha : A Geography of Population