

M.A./M.Sc. (Geography)

Semester - I

Geomorphology

Note: A total of eight questions will be set out the whole syllabus, at least two from each carrying 10 marks each. Total attempted questions are five.

Unit- I

Nature and scope of Geomorphology, Fundamental concepts- Recent trends in Geomorphology. Geomorphic ideas of Davis and Penck. Earth movements – Epeirogenesis, organic and cycatogenic earth movements. Force of crustal instability, isostasy, plate tectonics.

Unit- II

Exogenic Processes: Concept of gradation, Agents and processes of gradation, causes, types and classification of weathering, mass movement erosion depositional process and resultant landforms.

Unit – III

Geomorphic processes. Dynamics of fluvial, glacial, Aeolian, marine and karst processes and resulting landforms complexities in geomorphologic processes.

Semester I

Geography of India

Note: A total of eight questions will be set out the whole syllabus, at least two from each unit carrying 10 marks each. Total attempted questions are five.

Unit – I

Major physiographic Regions of India, Drainage systems and their functional significance climate, current theories regarding the mechanism of Monsoon

climatic Regions – Koppens, Trewarth and Stamp. Soil resources and conservation, Natural vegetation and its conservation.

Unit – II

Agricultural system and technological problem of India agriculture, developments, green revolution achievements and short comings, Regionalization of agriculture in India, Conventional and non-conventional power resources, Industrial regions of India.

Unit – III

Socio –economic implications of explosive growth of population, distribution and density of population resource regions, trends of urbanization, urban regions population problem and policies.

Semester - I

Economic Geography

Note: A total eight question will be set out the whole syllabus, at least two from each unit carrying 10 marks each. Total attempt questions are five.

Unit – I

Definition, scope, methods and branches, Distinction between Economic and Commercial Geography, Concept of Economy, Simple model of economy, Environmental relations of economy. Spatial structure of economy.

Unit – II

Principal human occupation – factor governing production. Nature of agriculture – subsistence agriculture, tropical plantations, commercial grain and corn region of U.S.A., Mixed farming in North-Western Europe. Mediterranean agriculture, Stock raising and its products.

Spatial distribution of Energy. Each source of power as supplementary to the other. Atomic power development and non-proliferation.

Unit – III

Spatial Variation in Transport costs and production costs, Transport and Economic activity; Economic Measurement of Means of Transport; Transport costs and Spatial Variation – Weber’s Hypothesis. Hoover’s Smith’s Hypothesis, Fetter’s Hypothesis, Florence’s Hypothesis; Factors Affecting Transport costs.

Semester - I

Geography of Resources

Note: A total eight question will be set out the whole syllabus, at least two from each unit carrying 10 marks each. Total attempt questions are five.

Unit- I

Nature, scope and significance of the Geography of Resources, definition and concept of resource related to cultural, economic and technological development stage and perceptions. Classification of resources – renew ability, availability and distribution of major natural resources – soils, forests fish and minerals.

Unit – II

Factors of Location of economic activities, physical, social, economic and cultural, concept and techniques of delimitation of agricultural regions, crop combination and diversification – Von Thunen’s model and its modifications.

Unit –III

Economic development of India, Resources Regions of India, Impact of green revolution of Indian economy. Globalization and Indian economy and its impact on environment.

Semester – II

History of Geographical Thought

Note: A total eight question will be se out the whole syllabus, at least two from each unit carrying 10 marks each. Total attempt questions are five.

Unit – I

Concepts in the philosophy of geography – distributions, relationship, interactions, a real differentiation and Dualisms in Geography – systematic v/s regional, physical v/s human. Geography in the ancient and medieval period, Contribution of Greek and Roman Geographers – Herodotus, Eratosthenes, Strabo and Ptolemy – Character of Geography in medieval period – the Dark Age.

Unit – II

Geography in the modern period. Contribution of German Scholars with special reference to the work of Humbolt. Ritter, French School of thought – Blacne. Brunhes. Contribution of British geographers – Hrbertson and Stamp Contribution of American geographers – Davis, sample.

Unit – III

Dualisms in geography – systematic v/s regional, physical v/s human Recent trends in Geography. Impact of positivism, behaviorism, radicalism and humanism.

Semester - II

Environmental Geography

Note: A total eight question will be se out the whole syllabus, at least two from each unit carrying 10 marks each. Total attempt questions are five.

Unit – I

Meaning and Concepts of Environmental, Classification of environmental: Natural and Human, Man-environment relations with respect to population size. Major characteristics of environment, Multi-Disciplinary Nature of environmental studies, need of environmental studies, Importance of environmental studies, Environmental conservation, Need of public awareness, important movements of India related to environmental awareness.

Unit – II

Geographical aspects of Major Environmental Problems: Man – environmental relationship; Nature Hazards – floods, drought, cyclones, earthquake, landslides and soil erosion; man-induced hazards, rapid urbanization, industrialization.

Unit – III

Environmental degradation :- Environmental pollution, Deforestation & Global warming, Green House Effect, Soil & Marine Pollution, Water Pollution, Thermal & Noise Pollution, Nuclear Pollution.

Semester - II

Human Geography

Note: A total eight question will be set out the whole syllabus, at least two from each unit carrying 10 marks each. Total attempt questions are five.

Unit – I

Conceptual: Definition, Scope and Development of Human Geography; Scholl of Human geography (determinism, Possibilism and new-determinism); Fundamental principals of human geography; Man as a geographical factor, Man and Environment (Climate)

Unit – II

RACE OF MAKING: Concepts, physical characteristics of races, classification by G. Taylor and migration zone theory of race evolution; racial classification of India by B.S. Guha.

Unit – III

Human response to environment is major natural regions of the world-study of made of life of Pigmies, Bushmen, Eskimos, Khirgiz, Masia, study of made of life of Indian tribes-Nagas, Bhils, Todas, Santhal and Tharus.

Semester – II

Population Geography

Note: A total eight question will be se out the whole syllabus, at least two from each unit carrying 10 marks each. Total attempt questions are five.

Unit – I

Nature scope and of Population geography, significance of studying distribution of population; different types of densities; board of distribution and density of population in the world.

Unit – II

Growth of population determinants of population growth, trends and patterns of population growth in development and developing countries of the world. Migration-internal and international; its causes and effects; internal migration in India.

Unit – III

Age and sex Composition – determinants and world patterns, Urbanization: meaning and significance, Comparative study of levels of Urbanization in developed and developing countries of the world. Population policy of India.

Semester - III

Climatology and Oceanography

Note: A total eight question will be se out the whole syllabus, at least two from each unit carrying 10 marks each. Total attempt questions are five.

Unit – I

Nature and scope of climatology and its relationship with meteorology. Composition and structure of the atmosphere. Insolation and Green House Effect. Distribution of Temperature and Pressure. Wind System. Jet Streams.

Unit – II

Precipitation. Acid Rain, and Ocean atmospheric interaction : El Nino, Solution Oscillation (ENSO) and La Nina. Climatic classification of Koppen and Thornthwaite. Climate changes and Global warming.

Unit – III

Nature and scope of oceanography. Distribution of land and water surface configuration of the ocean floor. Distribution of Temperature and Salinity. Circulation of Oceanic Water: Tides and currents. Ocean Deposits: their sources and kinds. Corals and coral reefs: Types and theories of their origin.

Semester – III

Regional Planning and Development

Note: A total eight question will be set out the whole syllabus, at least two from each unit carrying 10 marks each. Total attempt questions are five.

Unit – I

Regional Planning Trends in Indian – Metropolitan approach of Regional Planning, Sectoral approach of Regional Planning, Rural Development, Integrated Rural Development Programme, Agriculture Development, Industrial Development. State Regional Planning Approach, Micro- Level Planning Approach, Hill Area Development Programme, Desert Development Programme.

Unit – II

Urban Development & Planning – Mapping of Rural Development, Agriculture Development, (Land reform, Industrialization in Rural Area, Resource Development), Community Development programme, Intensive Agriculture Development Programme, Rural Development Approach.

Unit – III

Application of Remote Sensing in Regional Planning, Components of Remote Sensing, Platform used in GIS, Indian Satellite, GIS, Remote Sensing and Regional Planning.

Semester – III

Agriculture Geography

Note: A total eight question will be set out the whole syllabus, at least two from each unit carrying 10 marks each. Total attempt questions are five.

Unit – I

Nature, scope, significance and development of agriculture geography. Approaches to the study of agriculture geography: Commodity, systematic and regional.

Unit – II

Determinants of agriculture land use. Physical, economic, social and technical, selected agriculture concepts and their measurements; crop concentration, intensity of cropping, efficiency and productivity, crop combination regions and agricultural development.

Unit – III

Theories of agricultural location based on several multi-dimensioned factors: Von Thunens's theory agricultural location and its recent modifications; Whittlesey's

classification of agricultural regions, land use and land capability. Green Revolution, Impact on Indian Agriculture. Achievements & short coming.

Semester – III

Urban Geography

Note: A total eight question will be se out the whole syllabus, at least two from each unit carrying 10 marks each. Total attempt questions are five.

Unit – I

Nature, scope and significance of urban geography Different approaches and recent trends in urban geography- bases and process of urbanization and development. Trends of urbanization in India. Classification of urban centers on the basis of size and function.

Unit – II

Landuse models and theories of urban theories of urban growth. Location and spacing of urban centers – Central place theory of Christaller and Losch Urban areas and conurbation.

Unit – III

Rural – urban fringe. Morphology of Indian cities with special reference to New Delhi, Chandigarh and Meerut Umland – Concept and its delimitation. Meaning and Principal of Town Planning, Problems and Planning of Modern towns of India. Contemporary Urban poverty, urban sprawl, slums and squatter, urban environmental problems.