

SYLLABUS FOR COMPUTER BASED RECRUITMENT TEST (CBRT)
FOR THE POST OF ASSISTANT PROFESSORS IN GOVERNMENT COLLEGE
(GEOGRAPHY)
UNDER
DIRECTORATE OF HIGHER EDUCATION
(Advt No. 09 Year 2021)

I. General English including Grammar - 05 marks

II. General Knowledge, Current Affairs and Events of National and International Importance - 10 marks

III. Logical Reasoning and Analytical Ability - 10 marks

IV. Core: - 50 marks

Geomorphology : Study of Landscape

Meaning, Scope and Fundamental Concepts of Geomorphology; Development of Geomorphology – American School, European School; Progress of Geomorphology in India; Recent Trend of Geomorphology; Earth Movements – Epeirogenesis and Orogenetic, Isostasy, Plate Tectonics.

Basis of Geomorphic Processes : Geomorphic Cycle and Land Forms in Humid, Arid, Glacial and Periglacial Environments, Polycyclic Land Forms, Erosion Surface and Climatic Geomorphology, Models of Land Landscape Development – G.K. Gilbert, W.M. Davis, W. Penk, L.C. King, J.T. Hack, Morisawa, Regional Geomorphology of Kashmir Himalaya, Chhatonagpur, Thar Desert and Deccan Trap

Applied Geomorphology – Relevance of Geomorphologic Knowledge to Regional Planning, Road and Dam construction, Mining, Urbanization and Natural Hazards.

Man and Biosphere

Biosphere as a Global Eco-system; Unity and Diversity in the Biosphere; Structure and Function of the Major Ecosystem; Major Biome of the World; Productivity, Stability and Liability of the Ecosystem, Nature of Environmental Crisis. 2 Man in the Biosphere; The Pleistocene Environment; Emergence of Homo Sapiens and Spread over the Globe; Impact of Technology and Culture on Biosphere; Resource Extraction Technology; Use of Fire; Domestication of Plants and Animals; Use of Fossils Fuels and Resource Conservation Technology; The Impact of Industrial Revolution, Transport, Communication; Space Intensifying Technology (Urbanization); Impact of Green Revolution on the Biosphere

Geography of Resource

Geography of Resource – Definition, Nature and Scope; Concept and Classification of Resources; Resources and Development – Culture, Economic and Technological; Concept of Resource Adequacy and Scarcity.

Distribution and Characteristics of Major Natural Resources of the World; Soils, Forest, Water, Power and Minerals – Iron ore, Bauxite, Copper, Tin; Delimitation and Characteristics of Major Resource Regions of the World.

Problem of Resource Utilization; Population Pressure on Resources; Concept of Limits to Growth; Agricultural and Industrial Regions of the World; National Policy of India on Natural Resources – Forest and Water; Population Policy and Programmes in India.

Geographical Thought

Main Stages in the Evolution of Geographical Thought; Development of Dualism in Geography – Physical vs Human, Systematic vs Regional; The Fallacy of Dualism; Positivism in Geography; Quantitative Revolution and its Impact; Systems and Models in Geography; Radical Geography; Revival of the Ecological School; The Concept of Earth Surface; Concept of landscape; Concept of Region; Typology of regions; ; Concept of Spatial Organization; Geography as a Science of Relationships; Geography as a Science of Human Welfare;

Climatology and Oceanography (A) Climatology: Definition, Nature and Scope of Climatology; Heat Balance of the Earth; Air Masses and Fronts; Origin of Monsoon – Recent Concept; Climatic Classifications Given by Koppen, Thornthwaite and Triwartha with their Critical Appraisal; Applied Climatology; Climate and (i) Landforms, (ii) Vegetation, (iii) House Types and (iv) Agriculture; Human Impact on Climate – Green House Effect and Ozone Depletion; Regional and Micro Climatology; Urban Climatology and Heat Islands; Weather Forecasting.

(B) Oceanography: Definition, Scope and Evolution of Oceanography; Submarine Morphology with special reference to Indian Ocean; Temperature and Salinity in the Oceans; Ocean and Climate Circulation of Oceanic Water – Currents; Marine Deposit; Life in the Ocean – Vegetation and Animals; Ocean and its Resources – (a) Biotic Resources, (b) Food Resources, (c) Minerals Resources, (d) Energy; (e) Transportation and Trade; Geopolitics and Oceans with Special Reference to Indian Ocean; Human Impact on Marine Environment.

Advance Geography of India

Spatial aspects of Growth and Distribution Population Resource Regions; Population Problems; Agricultural Development : Irrigation, Fertilizer; Green Revolution; Agricultural Regions & New Trends in Indian Agriculture; Mineral Resource Region; Industrial Policies & Trends of Industrialization; Industrial Regions & Industrial Complexes; Problems & Prospects of Industrially Backward Regions. The Role of Transport Network, Marketing and Banking in Indian Economy; Regional Development Policies in Five Year Planes; Impact of Globalization and Multination on Indian Economy; Regional Pattern of Development and Disparities.

Agricultural Geography

Definition and Scope of Agricultural Geography; Approaches to the study of Agricultural Geography; Origin' Dispersal, Development of Agriculture; Principles of Agricultural Location; Land Capability & Land Use Classification with Special Reference to India; Agricultural Efficient and Productivity Measurement; Crop-Combination Regions – Method of Delimitation by Weber and Doi; Crop-Combination Regions of India; Agricultural Intensity and Diversification; Agricultural Typology; Determination and Distribution; Measurement of Level of Agricultural Development; Impact of Modern Agriculture on Environment; Green Revolution in India; Concept of Sustainable Agriculture; Planning of the Agricultural Land Use; Food Security in India.

Industrial Geography

Definition and Scope of Industrial Geography; Recent Trends in Industrial Geography; Industrial Location Factors; Linkage in Industries, Bases of Identification of Industrial Regions; Industrial Regions of U.S.A., Japan, U.K. and West Europe. Industrialization in India – Industrial Development and Policies, Industrial Regions and Complexes; Impact of Globalization and Problems of Industrialization; Environmental Impact of Industrialization; Tourism as an Industry; Elements of Touris; Tourism in Goa.

Geoinformatics

Definition and Scope of towards the modern geographical aspects.

Digital image processing

Photogrammetry

Satellite Meteorology

Environmental Modeling.

Note:

Duration for C.B.R.T : 90 Minutes

Maximum Marks for C.B.R.T : 75 Marks