

**SYLLABUS FOR COMPUTER BASED RECRUITMENT TEST (CBRT)**  
**FOR THE POST OF ASSISTANT PROFESSORS IN GOVERNMENT COLLEGE**  
**(GEOGRAPHY)**  
**UNDER**  
**DIRECTORATE OF HIGHER EDUCATION**  
**(Advt No. 13 Year 2020)**

**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 : 75 Minutes**

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