SYLLABUS FOR COMPUTER BASED RECRUITMENT TEST (CBRT)
FOR THE POST OF ASSISTANT PROFESSORS IN GOVERNMENT COLLEGE
(Geography)
UNDER
DIRECTORATE OF HIGHER EDUCATION
(Advt No. 12 Year 2024)

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

Unit 1: Geomorphology
- **Meaning, scope and fundamental concepts**
- **Earth movements: Epeirogenesis, orogenesis, isostasy, plate tectonics**
- **Geomorphic processes: Fluvial, arid, glacial, periglacial**
- **Erosion surfaces, polycyclic and climatic geomorphology**
- **Models of landscape evolution: Classical (Davis, Penck, King) & contemporary**
- **Applied geomorphology: Infrastructure planning, hazard mitigation**

Unit 2: Climatology
- **Definition, scope, and significance**
- **Heat balance of the Earth, atmospheric circulation, air masses and fronts**
- **Indian monsoon: Recent concepts**
- **Climatic classifications: Koppen, Thornthwaite, Trewartha – critical review**
- **Applied climatology: Climate and agriculture, settlements, vegetation**
- **Urban climatology, microclimate, heat islands, climate forecasting**

Unit 3: Oceanography
- **Definition, scope, and evolution**
- **Ocean floor morphology with special reference to Indian Ocean**
- **Ocean water: Temperature, salinity, currents**
- **Ocean-atmosphere interaction: El Niño, La Niña, global circulation**
- **Marine resources: Biotic, mineral, energy, food**
- **Marine pollution, ocean conservation, geopolitics of oceans**

Unit 4: Environmental Geography & Climate Change
- **Biosphere: Structure, function, and global biomes**
- **Human-environment interaction across ages: Pleistocene to Anthropocene**
- **Environmental degradation and biodiversity loss**
- **Climate change: Causes, consequences, mitigation, and adaptation**
- **Sustainability: Resource conservation, ecosystem resilience**
- **Environmental policies and international climate frameworks (e.g., IPCC, Paris Agreement)**

Unit 5: Disaster Management and Risk Assessment
- **Hazards and disasters: Natural and anthropogenic**
- **Types of disasters: Floods, droughts, earthquakes, landslides, cyclones**
- **Disaster risk reduction: Mitigation, preparedness, recovery**
- **Role of geospatial technology in hazard mapping and early warning**
- **Case studies from India: Himalayan landslides, coastal cyclones**

Unit 6: Geography of Resources
- **Concept, classification, and characteristics of resources**
- **Resource adequacy, scarcity, and sustainable management**
- **Global and Indian resource regions: Forests, water, minerals, energy**
- **National resource policies: Forest and water policy, resource governance**
- **Challenges: Overuse, population pressure, technological solutions**

Unit 7: Agricultural Geography
- **Definition, scope, and approaches**
- **Agricultural systems, land use classification, crop combination (Weber, Doi)**
- **Agricultural regions of India and the world**
- **Green Revolution, agricultural productivity and efficiency**
- **Sustainable agriculture, food security in India, agro-environmental issues**

Unit 8: Industrial Geography

- **Industrial location theories and factors**
- **Classification and linkages in industries**
- **Global industrial regions: USA, Japan, UK, Western Europe**
- **Industrial development in India: Regions, complexes, policies**
- **Globalization, industrialization, and environmental impacts**
- **Tourism geography: Elements and development (with reference to Goa)**

Unit 9: Geography of India

- **Population growth, distribution, and demographic issues**
- **Agriculture: Irrigation, fertilizer use, agrarian regions**
- **Industry: Location trends, industrial corridors**
- **Transport, trade, and communication networks**
- **Regional disparities and development planning in India**
- **Impact of liberalization, privatization, and globalization (LPG reforms)**

Unit 10: Geoinformatics and Spatial Technology

- **Fundamentals and scope of geoinformatics in geography**
- **Tools and techniques:**
  - **Remote Sensing, GIS, GPS**
  - **Digital image processing, photogrammetry**
- **Satellite meteorology and climate monitoring**
- **Urban and regional planning applications**
- **Environmental modeling and decision-making**
- **Role in disaster management, agriculture, resource mapping**

Note:

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

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