

Roll No. ....

Total Pages : 2

**CMDQ/D-23**

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## **GEOGRAPHY & ECOSYSTEM**

Paper–M–GEOG–301

Time allowed : 3 Hours]

[Maximum Marks : 70

**Note :** Attempt **five** questions in all, selecting **one** question from each unit. Questions No. **1** is compulsory. All questions carry equal marks.

### **Compulsory Question**

1. Briefly explain the following: 7×2=14
- (i) Process of nitrification
  - (ii) Xerophyte vegetation
  - (iii) Ecological niche
  - (iv) Buttress of roots
  - (v) Mega diversity countries
  - (vi) Kyoto protocol
  - (vii) Water Pollution Prevention and Protection Act, India.

### **UNIT-I**

2. What is the process of carbon cycle? Examine the interruptions of the cycle after the advent of industrial revolution. 14

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3. What are the basis of ecosystem? Discuss the components and functions of ecosystem. 14

### **UNIT-II**

4. What is the structure of marine biome? Discuss the flora and fauna of marine biome. 14
5. What is the geographical areas under temperate grasslands? Discuss the geographical conditions and wild life distribution of the temperate biome. Further, examine the impacts of human activities on the biome. 14

### **UNIT-III**

6. How forests are distributed in the world? Discuss its significance and causes of depletion. 14
7. What are the physical, chemical and biological parametres used in testing level of water pollution? Discuss the status of water quality of natural water resources in India. 14

### **UNIT-IV**

8. Critically discuss the outcome of the International Environmental Summits. 14
9. What are the scientific evidences of global warming and climate change? Discuss the present scenario and predictions by the scientists about climate change. 14

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