

Roll No. ....

Total Pages : 2

**CMDQ/M-24**

**5555**

## **TROPICAL CLIMATOLOGY**

Paper–M–GEO-403(v)

Time Allowed : 3 Hours]

[Maximum Marks : 70

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

### **Compulsory Question**

1. Write short notes (not exceeding 50 words) on the following topics: 7×2=14

- (i) Solar Constant.
- (ii) Annual Range of Tropical Temperature.
- (iii) Altitudinal modification of tropical temperature.
- (iv) ITCZ Shift in Tropics.
- (v) Tibetan High.
- (vi) Intensity of Tropical Cyclone.
- (vii) Cumulonimbus Clouds of Tropics.

### **UNIT–I**

2. Discuss the spatial and seasonal pattern of net radiation in tropical areas and factors affecting it. 14

3. Describe the distribution pattern of temperature in tropical areas and factors affecting it. 14

### **UNIT–II**

4. What is subtropical high? How does it originate and shift with seasons? 14
5. What is Walker Circulation and Southern Oscillation? How does it influence the global weather? 14

### **UNIT–III**

6. Describe the internal structure of tropical cyclones. How do the tropical cyclones bring destruction in coastal areas? 14
7. Discuss the salient features of spatial and seasonal distribution patterns of rainfall in tropical areas. 14

### **UNIT–IV**

8. What are climatic features of Tropical Wet and Dry Climates? What are the types of natural vegetation associated with these climates? 14
9. How does rainfall influence tropical agriculture? Describe the agro-climatic zones in tropics demarcated on the basis of rainfall. 14