

Roll No. ....

Total Pages : 2

**CMDQ/D-23**

**5095**

## **REMOTE SENSING AND GEOGRAPHICAL INFORMATION SYSTEM**

Paper–MES-302

Time Allowed : 3 Hours]

[Maximum Marks : 80

**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 on the following : 8×2=16
  - (a) Difference between georeferencing and geotagging.
  - (b) Define Photogrammetry.
  - (c) Define GIS.
  - (d) Mention why 'snow appears white in visible spectrum'.
  - (e) Name four application of remote sensing in disaster management.
  - (f) Differentiate between 'tone' and 'texture' elements used in image interpretation.
  - (g) Define scale of a topographic sheet with an example.
  - (h) Write blackbody concept.

### **UNIT-I**

2. Write short notes on the following : 8,8
  - (a) Plank's Law
  - (b) Atmospheric Windows.
3. Describe different types of scattering phenomenon with their effects in remote sensing. 16

### **UNIT-II**

4. Explain different types of aerial photographs. 16
5. Write short notes on the following with two examples of each one : 8,8
  - (a) Low pass filters
  - (b) High pass filters.

### **UNIT-III**

6. Explain different types of GIS analytical tools with suitable examples. 16
7. Write short notes on the following : 8,8
  - (a) DEM
  - (b) GIS architecture design for a flood project.

### **UNIT-IV**

8. Give an account on remote sensing applications in coastal zone management. 16
9. Describe the role of GIS in forestry applications. 16