

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