Government College (Autonomous), Rajamahendravaram

(Affiliated to Adikavi Nannaya University)

SEMESTER-VI- Cluster Paper VIII B3

Introduction to Remote Sensing & GIS

Model Question Paper

Time: 3 hrs Max.Marks: 60

Part - A

Answer any Four of the following questions. 4 x 8m = 32

1. What is remote sensing? Write about fundamental elements of remote sensing?

OR

2. What is EMR and what do you understand by EMR? With neat sketch?

3. Advantages and Disadvantages of Remote sensing data?

OR

4. How does Electromagnetic radiation interact with water?

5. Define scattering and what are the types of scattering?

OR

6. Write an essay on applications of Remote sensing in mineral exploration?

7. What are basic interactions that take place on the earth surface?

OR

8. Explain the interaction of EMR with vegetation ,soil and water.?

Part – B

Answer any Five of the following questions. 5 x 4m = 20

9. What is a RADAR and write down the RADAR equation?
10. What are applications of remote sensing and GIS in water resources management?
11. What are maps ? what are different types of maps?
12. What is a satellite and what are the different types of satellites used in remote sensing?
13. What are characteristics of EMR interaction with soil particles?
14. What are atmospheric windows and what significance of atmospheric windows?
15. What are spectral signature curves and what do you understand by spectral signature?

PART – C

4 x 2m = 8

Answer all the Questions. Each question carry 2marks.

16. Black body
17. Expand GIS,SPOT
18. What is the meaning of Geosynchronous satellite
19. Types of maps