

GEO INFORMATICS ENGINEERING
SEVENTH SEMESTER – (REGULATIONS 2004)
GI 506 RS & GIS FOR ENVIRONMENTAL MONITORING

Time : 3 hr

Max Mark: 100

Answer ALL Questions

Part – A (10 x 2 = 20 Mark)

1. What is runoff?
2. Write the availability of fresh water on earth in different forms.
3. What is landform? List any five land forms.
4. Draw the spectral reflectance curve for dry soil
5. Why biodiversity is important?
6. Write your any one contribution to forest conservation as an individual.
7. Which band will be most useful for chlorophyll detection in water?
8. Which is the first Indian satellite primarily developed for ocean applications?
9. What is the composition of air?
10. List any five polar orbiting meteorological satellites.

Part – B (5 x 16 = 80 Mark)

11. i) Explain the spectral reflectance characteristic of clean and contaminated water (10)
ii) Write about point and non point sources of water pollution (6)
12. a. i) Discuss the soil characteristic modeling using satellite data with case study. (12)
ii) Write about modified Universal soil loss equation. (4)

OR

- b. i) Discuss the application of Remote Sensing and GIS for solid waste disposal in Chennai city. (16)
13. a. i) Explain the application of RS and GIS for forest conservation (10)
ii) Describe the importance of wildlife conservation. (6)

OR

- b. Explain the USGS Land cover / Land use classification system using remote Sensing (16)
14. a. Discuss about RS and GIS application to Oil slicks mapping with case study. (16)
OR
b. Discuss about the application of RADAR techniques for Ocean studies. (16)

15. a. i) How will you use remote sensing and GIS for air quality monitoring? (12)

ii) Write about hurricane tracking (4)

OR

b. Discuss about merits & demerits of remote sensing and GIS for sustainable environment management. (16)