

Time: 3 hr

Max. Mark: 100

Answer ALL Questions

Part – A (10 x 2 = 20 Mark)

1. Write the break up of per capita domestic water demand
2. What are all the methods used in Suspended minerals estimation?
3. A hilly terrain is having a monthly average precipitation of 90 cm. Estimate its annual run off.
4. What is the significance of soil salinity
5. What is soil erosion and how will you estimate it?
6. What is non point source pollution?
7. List the habitat classification in land use and Land Cover map preparation
8. Write short notes on direct method of fish detection
9. Differentiate Environmental lapse rate and adiabatic lapse rate
10. List the types of atmospheric stability and the significance of each type in dispersion of air pollutants

Part – B (5 x 16 = 80 Mark)

11. (i) Write about the characteristics of Water and its estimation (8 marks)
(ii) Discuss about the spectral reflectance of clear and contaminated water (8 marks)

12. (a) (i) Explain about soil horizon and soil grain size and its texture (8 marks)
(ii) Brief about the spectral reflectance of soil and vegetation (8 marks)
- OR
- 12 b) (i) Explain about Land degradation assessment using Remote Sensing and GIS (8 marks)
(ii) Discuss about the application of RS and GIS in solid waste management (8 marks)
- 13 a) (i) Write the role of Remote Sensing in vegetation stress monitoring (8 marks)
(ii) How the Remote Sensing is useful for Wild life studies and explain it. (8 marks)
- (OR)
13. b) (i) Discuss about Land use and Land cover map preparation using RS and GIS (8 marks)
(ii) Write about the Remote Sensing application of Forest conservation (8 marks)

14. a) Write about the Sensors used for Environmental Monitoring (16 marks)

(OR)

14. b) (i) Discuss about the RS application in Oil Slick Mapping (8 marks)

(ii) Write about the Chlorophyll detection and estimation using RS (8 marks)

15 a). Discuss about Air Quality Dispersion modelling (16 marks)

(OR)

15. b) i) Write about Air Pollution Sampling and Control (8 marks)

ii) Explain about atmospheric temperature measurement using RS and GIS (8 marks)