

Reg. No

Name

18P252

M Sc DEGREE END SEMESTER EXAMINATION - APRIL 2018
SEMESTER 2 : ENVIRONMENTAL SCIENCE
COURSE : 16P2EVST08 ; REMOTE SENSING AND GIS
(Common for Regular - 2017 Admission & Supplementary - 2016 Admission)

Time : Three Hours

Max. Marks: 75

Section A
Answer any 10 (2 marks each)

1. What do contour lines on a map show?
2. What is grid on a map?
3. What is cadastral map?
4. What are the disadvantages of Aerial photographs?
5. Write a note on the following.
a) Data base extent b) Data automation
6. Write a short note on vertical photographs, the most common type of aerial photograph.
7. Expand RADAR and LIDAR. Write a short note on each.
8. What are the approaches in Digital image classification?
9. What are the steps in supervised classification?
10. Write briefly data 'information' as one component of GIS.
11. What is Cylindrical projection of a map?
12. Define GPS. How does a GPS device work?

(2 x 10 = 20)

Section B
Answer any 5 (5 marks each)

13. Classify aerial photographs based on the film used in the survey camera.
14. Write the factors affecting the resolution of image in aerial photography.
15. Explain the scope of remote sensing.
16. Briefly describe IRS satellites.
17. Define digital image. Explain the objectives and advantages of digital image processing.
18. Write a brief history and development of GIS.
19. Describe shape file and geodatabase.
20. Write a note on GPS space segment.

(5 x 5 = 25)

Section C
Answer any 2 (15 marks each)

21. What is digital image classification? Explain the two approaches in classification.
22. Write a note on any three familiar Land Observation Satellites.
23. Explain the principles, components and functions of GIS.
24. Explain the representation of spatial and non spatial data as a core of geographic Information

System.

(15 x 2 = 30)