908 Register No.:

April 2019

Time – Three hours
(Maximum Marks: 75)

[N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory. Answer any FOUR questions from the remaining in each PART – A and PART – B

(2) Answer division (a) or division (b) of each question in PART – C.

(3) Each question carries 2 marks in PART – A, 3 marks in Part – B and 10 marks in PART – C.]

PART – A

1. List down the elements of remote sensing process.
2. What are multispectral sensors?
3. Define interior orientation.
4. What are the elements used in image interpretation?
5. Define GIS.
6. Define metadata.
7. Write note on image enhancement.
8. Define positional accuracy and attribute accuracy.

PART – B

9. Describe about importance of wave length regions to remote sensing.
10. Differentiate photogrammetry and remote sensing.
11. Describe about the characteristics of digital image.
12. Explain about the components of GIS.
13. Write short note on LIS.
14. How are digital numbers stored and used by computers?
15. Write about the coordinate system used in GIS.
16. Briefly explain about date compression.

[Turn over.....

PART – C

17. (a) Define atmospheric effects. Explain: (i)Scattering (ii)Absorption (iii)Reflection.

(Or)

(b) Discuss in detail the reflectance characteristics of vegetation, soil and water.

18. (a) Compare analytical plotters with DPW.

(Or)

(b) Explain the process of aerotriangulation in flight planning.

19. (a) What are interpretation keys? Explain them with any one application.

(Or)

(b) Explain any two algorithms used in supervised classification of images.

20. (a) Write notes on (i)Types of data (ii)Data base management systems.

(Or)

(b) Explain the object oriented data model used to store attribute data for GIS.

21. (a) What are the sources of errors in map overlaying? How are they rectified?

(Or)

(b) Explain applications of GIS in civil engg.
