UG/5th Sem/Geo(H)/T/19

2019

B.Sc. (Honours)

5th Semester Examination

GEOGRAPHY

Paper - C12T

[Remote Sensing and GIS]

Full Marks : 40 Time : 2 Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

Group - A

Answer any *five* questions from the following. 5×2=10

1. Define electro-magnetic spectrum ?
2. What is standard False Colour Composites ?
3. What is Swath ?
4. Write two characters of active sensor.

[Turn Over]

5. What do you mean by spatial and non-spatial data ?

6. What is DBMS ?

7. Mention the errors associated with GPS.

8. How is overlay analysis used in Geography ?

Group - B

Answer any *four* questions. 4×5=20

9. Write down the principles of image interpretation.

10. Distinguish between Sun-Synchronous and Geo-Stationary Satellites.

11. Briefly describe the spectral signatures of vegetation and water.

12. Describe the process of triangulation or trilatteration in determining 3D position on earth surface using G.P.S.

13. Explain the inter-relationship between wave length, frequency and energy.

14. Explain the inter-relationship between black body and real body emittance through Kirchoff's Law.

Group - C

Answer any *one* question. 1×10=10

15. "The atmosphere acts as a constraint as well as assists to the remote sensing operations." Justify the statement.

16. Give a brief account of digital classification of satellite images. Highlight the advantages and disadvantages of digital image classification over visual techniques.
