

2020

GEOGRAPHY — HONOURS

Paper : CC-12

(Remote Sensing, GIS and GNSS)

Full Marks : 50

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Category - A

Answer **any five** questions (each within **50** words).

2×5

1. What is meant by remote sensing?
2. What is Electromagnetic spectrum?
3. Define Atmospheric Window.
4. What is DEM?
5. What is a standard FCC?
6. What do you mean by single and multiple buffers?
7. Name any two Global Navigation Satellite Systems that can be used as alternatives to GPS.

Category - B

Answer **any four** questions (each within **150** words).

5×4

8. Differentiate between sun-synchronous and geo-synchronous satellites.
9. Explain passive and active sensors with examples.
10. What do you mean by spectral signature of an object? Explain using an example.
11. State the different types of resolution of a sensor.
12. Make a comparative assessment of CartoDEM and SRTM digital elevation data.
13. What are the sources of errors in GNSS survey?

Please Turn Over

Category - C

Answer *any two* questions (each within **500** words).

10×2

14. Discuss the different elements of image interpretation with suitable examples.
 15. 'Use of GIS leads to better decision making in governance'. — Elaborate the statement.
 16. Explain the principles and significance of overlay analysis in GIS.
 17. Describe the different segments of GNSS.
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