2021

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.

Group - A

Answer any five of the following questions (each within 50 words).

 2×5

- 1. Define Swath.
- 2. What is passive remote sensing?
- **3.** Define topology.
- 4. What are the advantages of ALOS DEM data?
- 5. What is the purpose of georeferencing?
- **6.** What is radiometric resolution?
- 7. Define GNSS.

Group - B

Answer any four of the following questions (each within 150 words).

 5×4

- 8. What is the spectral reflectance characteristics of water and vegetation in blue, green, and NIR bands?
- 9. Discuss the different forms of scattering.
- 10. Differentiate between whisk-broom and push-broom scanners with examples.
- 11. Discuss the role of tone and texture in visual image interpretation with examples.
- 12. Write a short note on query and its use in GIS.
- 13. How does a GNSS satellite communicate with a ground-based receiver unit?

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Group - B

Answer any two of the following questions (each within 500 words).

10×2

- 14. Compare the advantages and disadvantages of digital vis-a-vis visual image interpretation.
- 15. What are the advantages and disadvantages of using GIS?
- 16. Explain the various applications of buffer generation in GIS.
- 17. What steps are involved in transferring GNSS waypoint data to GIS?