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End Semester Examination, 2021

Semester - V

GEOGRAPHY (Honours)

PAPER - CC-12TH-Geospatial Technology (Theory)

Full Marks : 40

Time : 2 Hours

Group - A

Answer any one of the following : 1x10=10

- 1) Mention the components of GIS. Differentiate between raster and vector data structure with suitable illustrations. What do you mean by open source software ? 2+7+1=10
- 2) Discuss the application of Remote Sensing and G.I.S for forest monitoring with suitable examples and illustration.

Group - B

Answer any four of the following : 4x5=20

- 3) Write the working principle of Global positioning system.
- 4) Write a short note on Unsupervised classification method under digital image classification technique.

(Turn Over)

- 5) What are the sources of Geometric errors in digital images.
- 6) Explain ISODATA Classification methods with suitable illustration. 5
- 7) 20, 21, 15, 14, 10, 8, 27, 30, 19, 33, 26, 40, 37, 65, 41, 35, 45, 31, 7, 55, 52, 58, 64, 49 – Classify these DN Values into 3 classes using K-means Clustering method. 5
- 8) Write a note on radiometric correction that is made on a remotely sensed digital image. 5

Group - C

Answer any five Questions : 5x2=10

- 9) Define multispectral image.
- 10) What are the segments of GPS ?
- 11) What are the Sources of errors in GPS ?
- 12) What is the difference between analog and digital image ? 2
- 13) What GPS can do for GIS ? 2
- 14) What is periodic line striping error ? 2
- 15) What do you mean by GCP ? 2
- 16) What do you understand by Clustering ? 2