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GIS 453

Second Semester M.Sc. Degree Examination, Sept./Oct. 2022
GEOINFORMATICS (CBCS)
Advanced GIS

Time : 3 Hours

Max. Marks : 70

I. Define **any five** of the following :

(5×2=10)

- 1) Rectification.
- 2) Cylindrical projection.
- 3) Buffer.
- 4) Overlay analysis.
- 5) Boolean operation.
- 6) QGIS.
- 7) Kriging.

II. Write short notes on **any five** of the following :

(5×4=20)

- 8) Components of GIS.
- 9) Functions of Web GIS.
- 10) Data quality and errors.
- 11) Web mapping.
- 12) GIS in network analysis.
- 13) Topology and its errors.
- 14) GIS for surface analysis.

III. Answer **any four** of the following :

(4×5=20)

- 15) Explain the principles and characteristics of Markup Language.
- 16) Write a note on Thematic characteristics of spatial data.
- 17) What is grid based spatial analysis ?
- 18) Explain the concepts of multi criteria decision making.
- 19) Explain the spatial interpolation techniques.

P.T.O.



IV. Essay type questions :

(2×10=20)

- 20) Describe the different spatial data modeling and add a note on advantages of raster and vector data models.

OR

Discuss the applications of GIS in natural disaster.

- 21) Describe the components of web GIS and add a note on their advantages and limitations.

OR

Write a detailed note on Decision Support Systems (DSS).
