

# C1072

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## GIS-507/DGIS-507

**Recent Trends in Geo informatics Part-I**

(MAGIS/MSCGIS/DGIS)

2nd Semester Examination, 2022 (June)

**Time : 2 Hours]**

**Max. Marks : 80**

**Note :** This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### SECTION–A

**(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

1. Define Cloud Computing and how does it work? Explain the cloud service models in details.

2. What are two basic types of 3D GIS Data? Write any three uses of 3D GIS Technology in detail.
3. Write short note on below :
  - (a) Geodesy and its uses.
  - (b) Types of linear measurement surveying.
4. Describe the temporary adjustments of a theodolite. Explain how you would measure the following with theodolite :
  - (a) Horizontal Angle.
  - (b) Vertical Angle.
  - (c) Bearing of a line.
5. What do you mean by projection ? Explain any one projected coordinate system with neat diagram.

## **SECTION-B**

### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only. (4×10=40)

1. Write a short note on the following :
  - (a) GeoExplorer and features available through a GeoExplorer portlet.
  - (b) Benefits of cloud computing.

2. Define cloud database. List out the benefits of cloud database.
  3. Differentiate Raster and Vector data models in detail.
  4. List out five latest trends in Geoinformatics education.
  5. Explain personal and natural errors that may occur during theodolite survey.
  6. Explain basic concepts of GPS receiver and its components.
  7. Name all the segments of GPS and their specifications.
  8. What is DBaaS (Database as a Service)? List down the advantage and disadvantage of DBaaS.
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