

**A-638**

Total Pages : 3

Roll No. ....

**GIS-601**

**RECENT TRENDS IN GEO  
INFORMATICS (PART-II)**

**(MAGIS/MSCGIS)**

3rd Semester Examination, 2024 (June)

Time : 2:00 Hrs.

Max. Marks : 70

**Note :-** This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

**Section-A**

**Long Answer Type Questions**      2×19=38

**Note :-** Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

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( 1 )

P.T.O.

1. Explain the concept of Service Oriented Architecture in terms of spatial data and process.
2. Describe in detail the two types of Lidar viz. Space borne and Airborne with one example of each type.
3. How can a web GIS based approach be useful for Forest Fire Monitoring ? Give an example of a web portal which is used by various Govt, agencies to monitor forest fire.
4. What are various data formats used for 3D visualization and modeling in spatial domain ? Write about few merit and demerits of each type.
5. What are the major challenges in crowdsourcing based data collection and what are the possible mechanism to overcome them ?

### **Section–B**

#### **Short Answer Type Questions**      4×8=32

**Note** :- Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. What is the difference between a OGC WMS and OGC WFS ?
2. Write *five* application of crowdsourcing based approach in geoinformatics.

3. Why do we require a constellation of satellite for the calculation of geo coordinates of a place ?
4. Discuss about the major difference between NaVIC and GPS.
5. Write the name of few parameters of a LIDAR system and discuss their usefulness in geospatial data collection.
6. Write few advantages and limitations of cloud based geo-computing.
7. Discuss the architecture of a mobile based crowdsourcing data collection while mentioning its three major components.
8. Write short note on the following :
  - (i) Geoserver
  - (ii) Open Street Map
  - (iii) SaAS
  - (iv) ISRO Bhuvan Portal

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