A-0652

Total Pages : 4 **Roll No. .....**

GIS-601

Recent Trends in Geo informatics Part-II

(MAGIS/MSCGIS)

Examination 2026 (Feb.)

Time: 02:00 hrs **Max. Marks: 70**

Note : This paper is of seventy (70) marks divided in to two (02) Section 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)

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.

(2x19=38)

P.T.O

1. Explain the parameters of LiDAR system in detail.
2. Explain the following terms:
    a. Digital Surface Model (DSM)
    b. Ground Control Point (GCP)
    c. Server
    d. Open Geospatial Consortium (OGC)
    e. Web Map Service
    f. Ground Penetrating Radar (GPR)
    g. Application Program Interface (API)
3. What is Google Map, Google Earth and Bhuvan geo-portal and how do they contribute to public services and societal development?
4 Trace the historical development of the Internet and Web GIS, and distinguish Web GIS from Traditional GIS.
5. Define GPS and evaluate its advantages and limitations compared to optical instruments such a total stations and write down their applications.

Section-"B"

(Short -answer - type questions)

Note:- Section 'B' contains eight (08) short-answer type questions of eight (8) marks each. Learners are required to answer any Four (04) questions only.

(4x8=32)

1. Explain the following terms with appropriate definitions.
   a. Electromagnetic Radiation (EMR)
   b. Digital Terrain Model (DTM)
   c. File Transfer Protocol
   d. Keyhole Markup Language
   e. Geospatial
2. Explain the National Spatial Data Infrastructure (NSDI).
3. What is mobile crowd sourcing? Write down its uses.
4. Define geodetic datum and map projection, and explain their significance in remote sensing and GIS applications.
5. Elaborate the initial history of GIS and its features. How the GIS technology helping the human kind.

P.T.O

6. Briefly describe the various types of web maps and explain their applications in disaster management.
7. Describe the concept of metadata and analyze its utility in Remote Sensing and GIS workflows.
8. Explain the following terms with appropriate definitions.
    a. Field-of-View
    b. Resolution
    c. Big Data
    d. IoT
    e. Computer Aided Design

****