

A-0437

Total Pages : 4

Roll No. -----

GIS-503/DGIS-503/CGIS-503

Fundamentals of GIS

(MAGIS/MSCGIS/DGIS/CGIS)

1st Semester Examination 2024(Dec.)

Time: 2:00 hrs

Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into 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.

P.T.O.

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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]

- Q.1. Write about the following types of GIS in detail.
- a. Web GIS
 - b. Internet GIS
 - c. Mobile GIS
 - d. Cloud GIS
 - e. Professional GIS
- Q.2. Write a detailed account of the data models in GIS and its characteristics.
- Q.3. Define database, database query and list out its advantages.

- Q.4. Differentiate between open source and proprietary software. What are the advantages and disadvantages of open source and proprietary software.
- Q.5. Define the concept of a GIS portal in detail and explain its key features, functions, and uses.

Section-B
(Short-Answer-Type Questions)

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.

[4x8=32]

- Q.1. Write about one famous GIS portal of India.
- Q.2. Write the components of GIS and describe them.
- Q.3. Explain raster data model and its encoding systems?

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- Q.4. Write about the geographic query (also known as a spatial query) in GIS.
- Q.5. What do you understand by map elements?
- Q.6. What do you understand by ERDAS Imagine software?
Elaborate its various functions.
- Q.7. What are the advantages of open-source software?
- Q.8. List a few file formats supported by QGIS for Raster and Vector data, and briefly describe them.
