

C1068

Total Pages : 3

Roll No.

GIS-503/DGIS-503/CGIS-503

Fundamentals of GIS

(MAGIS/MSCGIS/DGIS/CGIS-21)

1st 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. Explain the meaning and concept of GIS? Describe need, scope and importance of the GIS.

2. What is data model in GIS? Explain the characteristics, advantages and limitations of raster data model.
3. What do you understand by database management system (DBMS)? Describe various data analysis functions used in GIS?
4. What do you mean by the open source software? Discuss advantages and disadvantages of the open source software. State the applications or use of ERDAS software.
5. What are the basic features of Quantum GIS (QGIS)? Explain different menus and its functions in the first interface of QGIS?

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. What are the different components of GIS? Present a historical overview of the GIS?
2. Explain the characteristics and advantages of vector data model.
3. What is data query and data query language? Explain query by geography.

4. What do you mean by GIS data visualization? List out common map components and map design attributes under GIS data visualization.
 5. What is system software? Describe different features and components of system software.
 6. Distinguish between free software and open source software. List out the various open source GIS software.
 7. Discuss the process of GPS data downloading in QGIS.
 8. Explain the concept and components of GIS portal. What are the various resources of GIS portal?
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