C1071

Total Pages : 3   Roll No. ....

GIS-506/DGIS-506

Advance GIS

(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. What is GIS database? What are the features of GIS Database Management System (DBMS)?

2. What is spatial data? What are the characteristics of spatial and non-spatial data?

3. Define multi-layer raster analysis. Describe local, neighbourhood, zonal and global raster operations.

4. What do you understand by buffering in vector operation? Elaborate various proximity and buffering options in GIS?

5. What is vector overlay analysis? What are the primary functions of using clip, intersection and union?

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. Explain the data sources of GIS. What do you mean by International Standardization of geospatial data?

2. What is relational database? Explain different GIS data Models.

3. What do you mean by metadata? Explain the role of metadata in GIS.

4. Present brief accounts on raster measurements and arithmetic computations.

5. Briefly discuss common single layer geoprocessing operation on vector layers.

6. Describe various multiple layer operations of vector datasets.

7. What is database topology? Explain geographical features and elements of topology.

8. What do you about network analysis? Briefly explain different types of network analysis.

———————————