

**A-636**

Total Pages : 3

Roll No. ....

**GIS-506/DGIS-506/MGIS-506**

**ADVANCE GIS**

**(MAGIS/MSCGIS/DGIS/CGIS)**

2nd 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.

1. Explain about the two most popular data models used in GIS.

**A-636/GIS-506**      ( 1 )  
**/DGIS-506/MGIS-506**

P.T.O.

2. Define the following in raster analysis :
  - Local function
  - Focal function
  - Zonal function
  - Global function
3. What is the difference between coordinate and projection system ? List out three coordinate and three projection systems commonly used in GIS.
4. What disciplines and applications have had the greatest influence on the development of current GIS technologies ?
5. What is the difference between "choropleth" and "isopleth" map data ?

### **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. Explain the difference between attribute and spatial data, give examples.
2. What is the fundamental difference between raster and vector GIS ?

3. Define projection system in GIS. Name any *two* projection systems most popular for internet based GIS.
4. What are different types of errors in GIS ?
5. List the various types of Boolean operators used in GIS with example.
6. Differentiate between accuracy and precision.
7. What are different types of errors in GIS ?
8. List *three* international environmental issues that could be addressed using GIS.

\*\*\*\*\*