

K-949

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[Roll No.]

GIS-503/DGIS-503

MAGIS/MSCGIS/DGIS/CGIS

Ist Semester Examination Dec., 2023

FUNDAMENTALS OF GIS

Time : 2 Hours]

[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 there in. 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.

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(1)

P.T.O.

1. What are the best practices for Catalog/ Resource (Datasets/Apps) contribution ?
2. What are the key differences between a website and a portal ?
3. What are the advantages of importing GPS data over the collecting this manually ?
4. What are the limitations of QGIS ?
5. Write in details about the Software Development Life Cycle, keeping in mind about open-source software.

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. What is GIS ? List the components of GIS.
2. What is Spatial data ? Explain its types
3. How to represent spatial features in vector data model ? Explain with diagram.
4. List and explain elements of Raster Data Model.
5. What is software freedom ? Explain its components.

6. Define sentinel toolbox software is along with its various operations.
7. How would you calculate Descriptive Statistics under GIS data analysis techniques ?
8. When querying by geography, what is the difference between a source layer and a target layer ?
