K-949

Total Page No. : 3] [Roll No.

GIS-503/DGIS-503

MAGIS/MSCGIS/DGIS/CGIS Ist Semester Examination Dec., 2023 FUNDAMENTALS OF GIS

Time : 2 Hours]

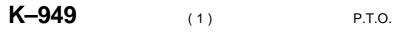
[Max. Marks: 70

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.



- 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 ?
- 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
- 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. **K–949** (2)

- 6. Define sentinel toolbox software is along with its various operations.
- 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 ?
