

A-1149

Total Pages : 3

Roll No.

BCA (N)-124

Introduction to GIS and RS

Examination February, 2026

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.

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(1)

P.T.O.

1. What are the different data types ? Explain each data type in detail.
2. Explain the concept of the Electromagnetic Spectrum and describe how it supports remote sensing technologies.
3. Explain the following terms :
 - (a) Radar
 - (b) GPS
 - (c) Google Earth
 - (d) Archaeology
 - (e) XML
 - (f) Server
 - (g) Internet
4. What is difference between Open GIS and License (Commercial) GIS Software ?
5. Explain the fundamentals of digital image processing and describe its role in remote sensing and GIS.

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 do you understand by 1 : 50000 ? Explain.
2. Write a short note on map scale, highlighting its definition and practical importance.
3. What is drainage pattern ?
4. Define and differentiate between spatial resolution and radiometric resolution in remote sensing. Explain their significance in image analysis.
5. Define the Geostationary satellite.
6. Write a brief note on Three-Dimensional Geographic Information System (3D GIS) and its applications.
7. What is Internet Map Server ?
8. What is thermal remote sensing ?
