A-0653

Total Pages : 3 **Roll No. .....**

GIS-602

Application of Geo informatics Part-III

(MAGIS/MSCGIS)

Examination 2026 (Feb.)

Time: 02:00 hrs **Max. Marks: 70**

Note : This paper is of seventy (70) marks divided in to two (02) Section 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)

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.

(2x19=38)

P.T.O

1. Explain in detail the interaction of Electromagnetic Radiation (EMR) with vegetation. Discuss various types of reflection and absorption characteristics in relation to different parts of plants leaves.
2. Discuss the role of remote sensing and GIS in forest management, biomass estimation and biodiversity studies.
3. Explain the concept of hazard identification and hazard assessment. How do these help in disaster management?
4 Define Land Use/Land Cover (LULC) classification and explain its importance in urban studies. Describe the process and techniques used in remote sensing-based LULC mapping.
5. Define the term Risk and explain the process of Risk Assessment in disaster management. Discuss its types and the interrelationship between Hazard, Vulnerability, and Risk.

Section-"B"

(Short -answer - type questions)

Note:- Section 'B' contains eight (08) short-answer type questions of eight (8) marks each. Learners are required to answer any Four (04) questions only.

(4x8=32)

1. Write a short note on LANDSAT.
2. Write differences between supervised and unsupervised classification.
3. What is vulnerability?
4. Write short notes on hazard identification techniques.
5. What is hazard mapping?
6. Write a short note on GIS applications in town infrastructure planning.
7. Write a short note on "Bhuvan portal".
8. Explain the difference between spatial data and non-spatial (attribute) data with suitable examples.

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