

M. Sc. 2<sup>nd</sup> Semester Examination, 2022

GEO-INFORMATICS

Course Title: Photogrammetry and Digital Image Processing

Course Code: GI 201T

Course ID: 23151

Time: 2 Hrs.

Full Marks: 40

*The figures in the margin indicate full marks  
Candidates are required to give their answers in their own words as far as practicable  
All questions are of equal marks  
Answer any four questions selecting at least one from each unit*

**Unit-1: Basics of Photogrammetry**

1. What is the difference between map and photograph? Briefly discuss the different types of photogrammetric survey. 5+5=10
2. How do we determine the scale of photograph for flat and variable terrain? Mention the different uses of aerial photography. 5+5=10

**Unit-2: Pre-processing and Enhancement**

3. Briefly discuss the purposes of encoding in satellite communication. Mention the different types of digital data. 7+3=10
4. Write a short note on the image enhancement methods. Explain Histogram Equalization method of contrast enhancement. 5+5=10

**Unit-3 Image Transformation and Processing**

5. What is image fusion in remote sensing? Describe any two methods of image transformation. 3+7=10
6. Discuss the steps of supervised image classification. In which cases unsupervised image classification is more preferable than supervised classification. 7+3=10

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