

M. Sc. 2nd Semester (Practical) Examination, 2021

GEO-INFORMATICS

[Digital Image Processing]

Course Code: GI 204P

Course ID: 23164

Time: 3 Hrs. 15 Mins.

Full Marks: 40

The figures in the margin indicate full marks

Candidates are require to give their answers in their own words as far as practicable

*Answer **all** questions*

Unit-1: Pre-processing and Enhancement

1. What is radiometric and geometric correction in remote sensing? Write the different steps of them. 5+5=10

Unit-2: Image transformation

2. Write down the formula of SAVI? How do we analyse the NDVI image to extract different land cover and status of vegetation health? Why do we perform Principal Component Transformation (PCT)? Which transformation is used to destripe an image? 2+4+2+2=10

Unit-3: Image Classification

3. Differentiate supervised from unsupervised image classification? Write the steps of supervised classification. 10
4. Viva voce and Notebook. 5+5=10

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