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School of Computing Science and Engineering

Bachelor of Technology in Computer Science and Engineering

Semester End Examination - Nov 2023

Duration : 180 Minutes

Max Marks : 100

Sem VII - BTCS9606 - Satellite Image Analysis

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) Discuss the different ways of remote sensing data collection with suitable examples. K1 (2)
- 2) Explain Remote Sensing with an example. K2 (4)
- 3) Differentiate between the salient features of Landsat-5 and Landsat-8 K2 (6)
- 4) Explain the need of 'mosaicking' in satellite image analysis. K3 (9)
- 5) List the the components of remote sensing, with suitable diagram. K3 (9)
- 6) The entire grid of downloaded image is not used for analysis and hence, it must be resized to give a required geographical area; this is termed as Resizing. Explain the methods to resize the imagery K5 (10)
- 7) what kind of satellite imagery can be used for the formulation of spectral indices and why? K4 (12)
- 8) Explain in detail about the quick atmospheric correction. K5 (15)
- 9) Differentiate between salient features of Resourcesat LISS-III and AWIFS data. K5 (15)
- 10) Discuss the role of electromagnetic spectrum in remote sensing and satellite imaging. K6 (18)