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N – 7243

Reg. No. :

Name :

Fourth Semester M.S.W. Degree Examination, August 2022

Disaster Management

SWDM 542.2 — DIGITAL IMAGE PROCESSING AND IMAGE ANALYSIS

(2020 Admission)

Time : 3 Hours

Max. Marks : 75

PART – A

Answer **all** questions in not more than 50 words. Each question carries **2** mark.

1. Supervised classification
2. Temporal resolution
3. Active remote sensing
4. Multispectral sensor
5. Polar Sun Synchronous Orbit
6. Expand and write the colour composite of Standard FCC
7. Geometric correction
8. Landsat Satellite Program
9. Sensors
10. Subsetting

(10 × 2 = 20 Marks)

PART – B

Answer any **five** of the following in not more than 300 words. Each question carries 5 marks.

11. What do you mean by Resolution? Types of resolution?
12. Explain the significance of Electromagnetic radiation (EMR) in remote sensing.

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13. Describe types of remote sensing.
14. What is satellite image pre-processing?
15. List out the different types of scattering in remote sensing.
16. Briefly explain Spectral enhancement technique: Band Ratio.
17. Write on Normalised Difference Vegetation Index(NDVI).
18. A short note on atmospheric window.

(5 × 5 = 25 Marks)

PART – C

Answer any **three** of the following in not more than 850 words. Each question carries 10 marks.

19. Give a detailed note on digital image processing.
20. Describe the elements of visual image interpretation.
21. List out the application of remote sensing in disaster prone areas.
22. Discuss the stages and advantages of remote sensing.
23. Briefly explain the application of remote sensing in agricultural drought monitoring and forecasting.

(3 × 10 = 30 Marks)

