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S – 5084

Reg. No. :

Name :

Fourth Semester M.S.W. Degree Examination, October 2023

Disaster Management

SWDM 542.2 : DIGITAL IMAGE PROCESSING AND IMAGE ANALYSIS

(2020 Admission Onwards)

Time : 3 Hours

Max. Marks : 75

SECTION – A

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

1. Multispectral Image.
2. Digital Data.
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)

P.T.O.



SECTION – B

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

11. Describe on resolutions of remote sensing data.
12. Explain the significance of Electromagnetic Spectrum.
13. Describe the types of remote sensing.
14. Image pre-processing is important in Digital Image processing- Justify?
15. List out the different types of scattering of light.
16. Briefly explain Spectral enhancement technique: Band Ratio.
17. Write on Principal Component Analysis.
18. A short note on atmospheric window.

(5 × 5 = 25 Marks)

SECTION – 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 applications remote sensing in agricultural drought monitoring and forecasting.

(3 × 10 = 30 Marks)

