

(Pages : 2)

**S – 5088**

**Reg. No. :** .....

**Name :** .....

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

**Disaster Management**

**SWDM 544.2 — GEO INFORMATICS AND APPLICATIONS IN DISASTERS**

**(2020 Admission Onwards)**

Time : 3 Hours

Max. Marks : 75

**PART – A**

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

1. Environmental Impact Assessment (EIA).
2. Digital Terrain Modelling.
3. Urban sprawl.
4. Avalanche.
5. Soil degradation.
6. Water quality monitoring.
7. Glacier.
8. Solid waste management.
9. Urban Information System.
10. Drought.

**(10 × 2 = 20 Marks)**

P.T.O.



## PART – B

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

11. Explain the role of GIS in Urban Planning.
12. Briefly explain snow cover mapping and modelling approaches.
13. Write a short note on Geoinformatics and drainage network analysis.
14. Describe urban land-use mapping.
15. Explain the importance of GIS in flood management.
16. List out applications of Geoinformatics in forest fire management.
17. Describe the application of GIS in cyclone studies.
18. Write a short note on remote sensing application in hydro-geomorphological interpretation.

**(5 × 5 = 25 Marks)**

## PART – C

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

19. Explain the importance of Geoinformation in Geo-technical Engineering.
20. Describe the relevance of geoinformatics in Environmental Management.
21. Explain the application of GIS in Disaster Management.
22. Discuss mapping and modelling of Landslide hazards.
23. Briefly explain the role of remote sensing in Water Resource studies.

**(3 × 10 = 30 Marks)**

