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**N – 6793**

Reg. No. : .....

Name : .....

**Third Semester M.S.W. Degree Examination, June 2022**

**Disaster Management**

**SWDM 534.2 : SCIENCE AND TECHNOLOGY FOR RISK ASSESSMENT,  
PREVENTION AND PREPAREDNESS**

**(2020 Admission)**

Time : 3 Hours

Max. Marks : 75

**PART – A**

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

1. Risk adaptation
2. Land-use planning
3. Early Warning System
4. Landslide Monitoring Sensors
5. QLARM
6. Open Street Map
7. Rescue Robotics
8. Geoethics
9. Build Back Better
10. Seismic Resistant Retrofitting.

**(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. Comment on Technology and Suitable Development.
12. Explain Gender in Early Warnings stems.
13. Mention Seven Cardinal Rules of Risk Communication.
14. Explain the importance of land use planning.
15. Write a note on Artificial Intelligence for Emergency Response.
16. Describe Community-Based Early Warning Systems.
17. Explain the importance of Conceptual Seismic Design of Buildings.
18. Write a note on Low cost and Low Tech disaster proof Shelters.

**(5 × 5 = 25 Marks)**

## PART – C

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

19. Describe the ecosystem based Approaches to DRR.
20. Briefly explain the Structural and Non Structural Measures to prevent disaster.
21. What is Unmanned Aerial Vehicle (UAVs)? How is it used for Emergency and Reconstruction?
22. Describe the ICT Innovations for emergency response.
23. Critically analyse the role of technologies in DRR.

**(3 × 10 = 30 Marks)**

