R – 7624

Reg. No. : ....

Name : ....

Third Semester M.S.W. Degree Examination, July 2023

Disaster Management

SWDM 534.2 : SCIENCE AND TECHNOLOGY FOR RISK

ASSESSMENT, PREVENTION AND PREPAREDNESS

(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. Disaster prevention

2. Knowledge Management

3. Early Warning System

4. Landslide Monitoring Sensors

5. Sustainable Development

6. Open Street Map

7. Retrofitting

8. Role of Social media in emergency response

9. Build Back Better

10. Data Preparedness

(10 × 2 = 20 Marks)

SECTION – B

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

11.   Write a note on Structural and Non-Structural Measures to prevent disaster.

12.   Describe the eco-system based Approaches to Disaster Risk Reduction.

13.   Applications of Unmanned Aerial Vehicles (UAVs) in Emergency Operations.

14.   Explain the importance of Artificial Intelligence for Emergency Response.

15.   Write a short note on role of technology in DRR.

16.   Explain the importance of Conceptual Seismic Design of Buildings.

17.   Write a note on Low cost and Low Tech disaster proof Shelters.

18.   Explain the importance of land use planning.

(5 × 5 = 25 Marks)

SECTION – C

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

19.   What is EWS? Explain role of Gender in Early Warning Systems.

20.   Mention Seven Cardinal Rules of Risk Communication.

21.   Briefly explain the role of GIS in emergency response.

22.   Describe the ICT Innovations for emergency response.

23.   Write an essay on Community-Based Early Warning Systems.

(3 × 10 = 30 Marks)

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