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Reg. No. : .....

Name : .....

Third Semester M.S.W. Degree Examination, March 2025

Disaster Management

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

(2022 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. Disaster risk reduction.
2. Cyclone tracking.
3. Environmental Impact Assessment (EIA).
4. CSM and FMEA.
5. Ecosystem based DRR.
6. Hazard modelling.
7. Community Radio.
8. Remote sensing.
9. Simple Triage Rapid Treatment (START).
10. Robotics in disaster response.

(10 × 2 = 20 Marks)

P.T.O.

PART – B

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

11. Vulnerability reduction and capacity development are the two pillars of disaster risk reduction. Discuss.

12. How can the scientific community and the community work together to reduce the risk of disasters?

13. What do you understand by post disaster livelihood security and housing reconstruction?

14. How can smart devices and software help respond to disasters?

15. Write a note on traditional knowledge and technologies in disaster risk reduction.

16. What are the functions of Emergency Operating Centres (EOCs) in disaster response that integrate science and technology?

17. How would government and scientists benefit from understanding and applying community ideas on catastrophe risk reduction?

18. What do you mean by crowd management, and what are the different crowd control techniques?

(5 × 5 = 25 Marks)

PART – C

Answer any **three** of the following in not more than 800 words. Each question carries 1**0** marks.

19. What is meant by disaster risk assessment? Explain the various risk assessment models and their application in disaster management.

20. What are the major roles of science and technology in the disaster recovery and reconstruction?

21. What is meant by risk communication? Explain the cardinal rules of risk communication?

22. Integrating Artificial Intelligence for emergency response is critical in these times. Discuss

23. Develop a disaster risk reduction plan by combining scientific and technical techniques in any village/vulnerable place that is susceptible to natural disasters.

(3 × 10 = 30 Marks)

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