

M. Sc. DEGREE END SEMESTER EXAMINATION : MARCH 2023**SEMESTER 2 : ENVIRONMENTAL SCIENCE****COURSE : 21P2EVST06: DISASTER MANAGEMENT***(For Regular - 2022 Admission and Supplementary - 2021 Admission)*

Duration : Three Hours

Max. Weights: 30

PART A**Answer any 8 questions****Weight: 1**

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| 1. | What are the significance of public awareness and education in mitigating drought? | (U, CO 1) |
| 2. | What are the typical effects of droughts? | (U, CO 1) |
| 3. | Comment on DRR. | (U, CO 2) |
| 4. | Explain any two mitigation strategies in disaster management. | (U, CO 1, CO 2) |
| 5. | Why are gender issues important in the disaster preparedness plans? | (U, CO 1, CO 3) |
| 6. | Write notes on storage and handling of hazardous waste. | (U, CO 3, CO 4) |
| 7. | What are the actions to be included in the pre disaster mitigation plan? | (R, CO 3, CO 4) |
| 8. | How can GIS be helpful in distributing relief? | (U, CO 3, CO 4) |
| 9. | Comment on disaster recovery. | (U, CO 1, CO 3, CO 4) |
| 10. | What do you mean by vulnerability assessment? | (U, CO 1, CO 3, CO 4) |
| | | (1 x 8 = 8) |

PART B**Answer any 6 questions****Weights: 2**

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|-----|--------------------------------------------------------------------|-----------------------|
| 11. | Discuss the impact of disasters on the economy of a region. | (U, CO 1) |
| 12. | Comment on the challenges of mitigation. | (U, CO 2) |
| 13. | Write notes on two types of natural disasters. | (U, CO 1, CO 2) |
| 14. | What is the importance of forecasting in hazard mitigation? | (U, CO 1, CO 3) |
| 15. | What are the characteristics of a hazardous material? | (U, CO 3, CO 4) |
| 16. | What are the advantages of GIS? | (U, CO 3, CO 4) |
| 17. | Comment on the vulnerabilities caused by developmental activities. | (U, CO 1, CO 3, CO 4) |
| 18. | Comment on physical vulnerability assessment | (A) |
| | | (2 x 6 = 12) |

PART C
Answer any 2 questions

Weights: 5

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| 19. | Comment on floods as a disaster. What are its effects, consequences and management measures? | (U, CO 1) |
| 20. | Comment on geological disasters. Explain two geological disasters, their causes, effects, consequences and disaster management measures. | (U, CO 1) |
| 21. | Explain the different steps in disaster management for earthquake. What is the importance of structural mitigation in this context? | (U, CO 1, CO 2) |
| 22. | Briefly describe the process of disaster response in disaster management. | (U, CO 1, CO 3) |
| | | (5 x 2 = 10) |

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 1	Define terms disaster management, its components and structure and relate to manage the Public Health aspects of the disasters	U	1, 2, 4, 5, 9, 10, 11, 13, 14, 17, 19, 20, 21, 22	34
CO 2	Demonstrate to describe, analyze and evaluate the environmental, social, cultural, economic, legal and organizational aspects influencing vulnerabilities and capacities to face disasters	U	3, 4, 12, 13, 21	11
CO 3	Choose to design and perform research on the different aspects of the emergencies and disaster events while demonstrating insight into the potential and limitations of science, its role in society and people's responsibility for how it is used.	U	5, 6, 7, 8, 9, 10, 14, 15, 16, 17, 22	19
CO 4	Categorize the various pathways, tools and entry points for integrating CCA-DRR and sustainability concerns into developmental planning across sectors, national, subnational and local plans and actions of DM.	An	6, 7, 8, 9, 10, 15, 16, 17	11

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;