

**M. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2024****SEMESTER 2 - ENVIRONMENTAL SCIENCE****COURSE : 21P2EVST06 - DISASTER MANAGEMENT***(For Regular 2023 Admission and Improvement/Supplementary 2022/2021 Admissions)*

Duration : Three Hours

Max. Weights: 30

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

- |     |  |                       |
|-----|--|-----------------------|
| 1.  | Give an account of man- made disasters.  | (U, CO 1)             |
| 2.  | What was the reason for Bhopal disaster.   | (R, CO 1, CO 3, CO 4) |
| 3.  | Name any two mitigation strategies in disaster management.   | (U, CO 2)             |
| 4.  | What is the responsibility of community workers in CBDM?   | (U, CO 3, CO 4)       |
| 5.  | Explain why the community-based approach needs to take into consideration the availability of resources. | (U, CO 3, CO 4)       |
| 6.  | What are the significance of public awareness and education in mitigating drought?                       | (U, CO 1)             |
| 7.  | What are the problems associated with managing MCI?  | (U, CO 3, CO 4)       |
| 8.  | What do you mean by recovery after a disaster?   | (U, CO 1, CO 3, CO 4) |
| 9.  | What is meant by structural mitigation?  | (U, CO 2)             |
| 10. | What is Community Emergency Response Team (CERT)?  | (U, CO 1, CO 3)       |
|     |  | <b>(1 x 8 = 8)</b>    |

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

- |     |   |                       |
|-----|---|-----------------------|
| 11. | Write notes on vulnerability analysis.  | (U, CO 2)             |
| 12. | Describe urban disasters.   | (U, CO 1)             |
| 13. | Write notes on two types of natural disasters.  | (U, CO 1, CO 2)       |
| 14. | Comment on economical vulnerability assessment.   | (A)                   |
| 15. | Explain the colour coding used for hazardous material storing.  | (U, CO 3, CO 4)       |
| 16. | Mention some mitigation measures which can be incorporated into regular development programmes.   | (R, CO 3, CO 4)       |
| 17. | What are the reasons for increased mortality from communicable diseases?  | (U, CO 1, CO 3, CO 4) |
| 18. | What do you mean by emergency preparedness in hazard mitigation? Give some emergency preparedness steps which can be used in a disaster like flood. | (R, CO 1, CO 3)       |
|     |   | <b>(2 x 6 = 12)</b>   |

**PART C**  
**Answer any 2 questions**

**Weights: 5**

- |     |  |                     |
|-----|--|---------------------|
| 19. | Explain hazardous materials and discuss the ways of storing and handling them.                 | (U, CO 1, CO 3)     |
| 20. | Comment on floods as a disaster. What are its effects, consequences and management measures?   | (U, CO 1)           |
| 21. | Explain engineering and construction measures in disaster mitigation.                          | (U, CO 1, CO 2)     |
| 22. | Comment on droughts as a disaster. What are its effects, consequences and management measures? | (U, CO 1)           |
|     |  | <b>(5 x 2 = 10)</b> |

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, 6, 8, 10, 12, 13, 17, 18, 19, 20, 21, 22	33
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, 9, 11, 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	2, 4, 5, 7, 8, 10, 15, 16, 17, 18, 19	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	2, 4, 5, 7, 8, 15, 16, 17	11

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