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Question Paper Code: U9173

B.E. / B.Tech. DEGREE EXAMINATION, APRIL / MAY 2025

Open Elective

Civil Engineering

21UCE973- DISASTER MANAGEMENT AND MITIGATION

(Regulations 2021)

(Common to All Engineering branches)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. A disease that becomes unusually widespread and even global in its reach is referred to as CO1- U
(a) Epidemic (b) Pandemic
(c) Spanish flu (d) Hyper endemic
2. Disaster Management includes: CO1- U
(a) Mitigation (b) Reconstruction
(c) Rehabilitation (d) All of the above
3. How much percentage of Indian land is prone to earthquakes? CO1- U
(a) 52% (b) 54% (c) 59% (d) 60%
4. In which Phase of Disaster, damage Assessment is done? CO1- U
(a) Warning phase (b) Impact Phase
(c) Rescue phase (d) Re-Habilitation Phase
5. Downhill movement of earth is mainly caused by CO1- U
(a) Monsoon failure (b) rain
(c) drought (d) either (a) or (b)

PART – B (5 x 3= 15 Marks)

6. List the types of natural disaster. CO1-U

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| 7. | What is differential impact? | CO1-U |
| 8. | List the phases of disaster management cycle. | CO1-U |
| 9. | Define Hazard. | CO1-U |
| 10. | What is the role of government in disaster management? | CO1-U |

PART – C (5 x 16= 80 Marks)

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| 11. | (a) How can different types of natural disasters impact communities, and what measures can be taken to reduce their effects? | CO2-App | (16) |
| | (b) How can a community build resilience against both natural and man-made disasters, considering the specific challenges each type presents? | CO2-App | (16) |
| 12. | (a) Briefly explain the impacts caused due to disaster. | CO1-U | (16) |
| | Or | | |
| | (b) Briefly discuss the ecological, environmental and health impacts caused due to disaster. | CO1-U | (16) |
| 13. | (a) Illustrate the key components of disaster management cycle. | CO1-U | (16) |
| | Or | | |
| | (b) Describe Mitigation and Preparedness Community based DRR. | CO1-U | (16) |
| 14. | (a) Examine the differential impacts of disaster management. | CO1-U | (16) |
| | Or | | |
| | (b) In what ways does the current development strategy in India need to adapt based on IPCC projections for climate change? | CO1-U | (16) |
| 15. | (a) Explain about National guidelines and plans on disaster management. | CO1-U | (16) |
| | Or | | |
| | (b) Discuss any mega disasters of India and mitigations of such disaster in future. | CO1-U | (16) |