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Question Paper Code: U9173

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

Open elective

21UCE973 - DISASTER MANAGEMENT AND MITIGATION

(Common to All branches)

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5x 1 = 5 Marks)

1. High intensity and long duration of rainfall in Tripura causes CO1 - U
(a) Earthquakes (b) Floods (c) Landslides (d) Cyclone
2. The National Disaster Management Authority (NDMA) is headed by CO2 - U
(a) Prime Minister of India (b) President of India
(c) Governor of States (d) Chief Minister of States
3. How much percentage of Indian land is prone to earthquakes? CO3 - U
(a) 52% (b) 54% (c) 59% (d) 60%
4. Pareto Analysis' is a: CO4 - U
(a) Risk quantification technique (b) Risk analysis technique
(c) Risk mitigation technique (d) Risk prioritization technique
5. Most major tsunamis are produced by earthquakes with magnitudes greater than CO5 - U
(a) 6 (b) 7 (c) 8 (d) 9

PART – B (5 x 3= 15 Marks)

6. Describe tsunami. CO1 - U
7. What are the impacts of disaster on ecology and environment? CO2 - U
8. Outline the role of community in disaster management in India. CO3 - U
9. What is community-based disaster preparedness? CO4 - U
10. Brief about District Disaster Management Authority (DDMA). CO5 - U

PART – C (5 x 16= 80 Marks)

11. (a) Explain the various types of human made disaster occurred in India. CO1 - U (16)
- Or
- (b) Elaborate Do's and Dont's before, during and after earthquake. CO1 - U (16)
12. (a) Briefly discuss the ecological, environmental and health impacts caused due to disaster. CO2 - U (16)
- Or
- (b) Explain the differential impacts due to complex emergencies and climate change. CO2 - U (16)
13. (a) Explain stages of activities Before, During and After disaster for disaster risk management. CO3 - U (16)
- Or
- (b) Describe Mitigation and Preparedness Community based DRR. CO3 - U (16)
14. (a) Elaborate the strategies for reducing material, organizational and attitudinal vulnerability. CO4 - U (16)
- Or
- (b) Briefly explain IPCC and its scenarios in the context of India. CO4 - U (16)
15. (a) Explain the role of Government (local, state and national), Non-Government and Inter-Governmental agencies in disaster management. CO5 - U (16)
- Or
- (b) Discuss any mega disasters of India and mitigations of such disaster in future. CO5 - U (16)