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Reg. No. : ☐☐☐☐☐☐☐☐☐☐

Question Paper Code: 99174

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

Open elective

Computer Science and Engineering

19UCE974 - Disaster Management

(Common to ECE, EEE, EIE ,MECH,IT, Chemical, AGRI & BME Engineering branches)

(Regulations 2019)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Bhopal Gas Disaster is a kind of   CO1- U

   (a) Natural disaster   (b) Manmade disaster   (c) both a & b   (d) None of the above

2. Volcanic erupted material when inside the hill/earth/mountain it is called   CO1- U

   (a) Lava   (b) Magma   (c) Lahars   (d) None of the above

3. Vulnerability analysis comes in which part of the Disaster Management Cycle   CO2- U

   (a) Mitigation   (b) Preparedness   (c) Response   (d) Recovery

4. High vulnerability and high hazard are associated with   CO2- U

   (a) Low disaster risk   (b) medium disaster risk

   (c) high disaster risk   (d) None of the above

5. Warning about cyclonic disaster is convened through   CO3- U

   (a) Newspaper   (b) Radio network   (c) Television   (d) All of the above

6. How much percentage of Indian land is prone to earthquakes   CO3- U

   (a) 52%   (b) 54%   (c)59%   (d) 60%

7. In which Phase of Disaster damage Assessment is done   CO4- U

   (a) Warning phase   (b) Impact Phase   (c) Rescue phase   (d) Re-Habilitation Phase

8. How many Safety Integrity Levels exists   CO4- U

(a) 1   (b) 2   (c) 3   (d) 4

9. Downhill movement of earth is mainly caused by   CO5- U

(a) Monsoon failure   (b) rain   (c) drought   (d) either (a) or (b)

10. Most major tsunamis are produced by earthquakes with magnitudes   CO5- U
greater than

(a) 6   (b)7   (c)8   (d) 9

PART – B (5 x 2= 10 Marks)

11. Define Risk Analysis   CO1- U

12. What are the features of DBMS?   CO2- U

13. Define the climate change adaptation.   CO3- U

14. What is disaster relief   CO4- U

15. List out the different types of floods   CO5- U

PART – C (5 x 16= 80 Marks)

16. (a)   Draw the disaster management cycle and explain every stage in   CO1- U   (16)
            it.

                                    Or

(b)   What is hazard and how it is classified?   CO1- U   (16)

17. (a)   Explain in detail about   the key components of disaster   CO2- App   (16)
            management?

                                    Or

(b)   Analyze the causes for Tsunami 2004 which inflicted heavy loss   CO2- App   (16)
            to life, property along the coast of Tamil Nadu

18. (a)   Explain the importance of indigenous knowledge. How is it   CO3- App   (16)
            helpful in disaster management?

                                    Or

(b)   Explain about disaster risk reduction programs   CO3- App   (16)

19. (a)   Explain in detail about disaster management act, 2005.   CO4- App   (16)

                                    Or

(b)   Explain in detail about factors affecting vulnerability   CO4- App   (16)

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20. (a) Explain about National guidelines and plans on disaster CO5- App (16) management

Or

(b) Explain in detail about methodology used in coastal flooding? CO5- App (16)

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