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Reg. No. :

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Question Paper Code: 59174

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021

Open elective

Computer Science and Engineering

15UCE974- DISASTER MANAGEMENT

(Common to ECE, EEE, EIE, Mechanical, IT, Chemical)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Which of the following is not part of geological disaster? CO1- R
(a) Volcanoes (b) Earthquakes
(c) Tsunami (d) Sea surge.
2. The typical examples of man-made disasters are CO1- R
(a) Chemical explosion (b) Leakage of toxic waste
(c) War and civil strife (d) All of the above
3. Disaster Management includes: CO2- R
(a) Mitigation (b) Reconstruction (c) Rehabilitation (d) All of the above
4. Which of the following agencies are the National Disaster Risk Reduction stakeholders? CO2- R
(a) Central Government (b) National Disaster Offices
(c) Private Sector (d) All of the above.
5. In which phase of disaster management would you stabilize the situation and assess the immediate damage? CO3- R
(a) Recovery (b) Response (c) Mitigation (d) Preparedness

6. Construction of Flood control structures, wind proofing and elevation are examples of which of the following. CO3- R
- (a) Non- structural measures (b) Building codes
(c) Structural measures (d) Rehabilitation
7. How many Safety Integrity Levels exists CO4- R
- (a) 1 (b)2 (c)3 (d) 4
8. Which of the following is a hazard quantification method CO4- R
- (a) FMEA (b) Fault-tree (c) HAZOP (d) What-if Analysis
9. Most major tsunamis are produced by earthquakes with magnitudes greater than CO5- U
- (a) 6 (b) 7 (c) 8 (d) 9
10. Movement of earthquake waves through the ground can produce CO5- U
- (a) Solification (b) Creep (c) Liquefaction (d) All of the above

PART – B (5 x 2= 10Marks)

11. What is a Disaster CO1- R
12. Discuss the different process of relief process. CO2- U
13. List out the activities of IPCC. CO3- U
14. What are the components of disaster relief? CO4- R
15. What is pluvial flooding? CO5- R

PART – C (5 x 16= 80Marks)

16. (a) Draw the disaster management cycle and explain every stage in it. CO1- U (16)
- Or
- (b) Define earthquake and explain in detail about the types, causes and preventive measures of earthquake. CO1- C (16)
17. (a) What are the key components of disaster management? Explain in detail. CO2- U (16)
- Or
- (b) Explain the roles and responsibilities of Panchayati Raj Institution. CO2- U (16)

18. (a) Explain the importance of indigenous knowledge. How is it helpful in disaster management? CO3-App (16)
- Or
- (b) What do you mean by Land use change and how does it adversely affect the environment? CO3-App (16)
19. (a) Explain in detail about disaster management act, 2005. CO4- U (16)
- Or
- (b) Summarize the risk assessment types and steps involved in it. CO4- U (16)
20. (a) Describe any flooding disaster that occurred in India. CO5- App (16)
- Or
- (b) Access in detail about causes of man-made disaster? CO5-E (16)

