

24-04-2023

Reg. No.

Question Paper Code

11793

**B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2023**

Seventh Semester

**Mechanical Engineering**

(Common to Electrical and Electronics Engineering)

**GE8071 - DISASTER MANAGEMENT**

(Regulations 2017)

Duration: 3 Hours

Max. Marks: 100

**PART - A (10 × 2 = 20 Marks)**

Answer ALL Questions

- |  | <i>Marks,<br/>K-Level, CO</i> |
|--|-------------------------------|
| 1. What is a Pandemic?   | 2,K1,CO1                      |
| 2. Name the categories of disasters.                                   | 2,K1,CO1                      |
| 3. List the phases of disaster life cycle.                             | 2,K1,CO2                      |
| 4. Outline few points on the preparedness for disaster risk reduction. | 2,K1,CO2                      |
| 5. Justify how climate changes affect the environment.                 | 2,K2,CO3                      |
| 6. Relate how the Land use change affects the society.                 | 2,K2,CO3                      |
| 7. Write a note on vulnerability profile on India.                     | 2,K2,CO4                      |
| 8. What is disaster relief?  | 2,K1,CO4                      |
| 9. List out the examples of man-made disaster.                         | 2,K1,CO5                      |
| 10. What is a fluvial flood?   | 2,K1,CO6                      |

**PART - B (5 × 13 = 65 Marks)**

Answer ALL Questions

11. a) (i) What are the different types of natural disasters? Explain in detail. 7,K2,CO1  
(ii) Define mining and explain methods of extraction. 6,K2,CO1
- OR**
- b) (i) List the Do's and Don'ts during various types of Disasters. 7,K2,CO1  
(ii) Explain the causes, classification and types of forest fire. 6,K2,CO1
12. a) Explain the roles and responsibilities of various agencies in disaster mitigation and management. 13,K2,CO2
- OR**
- b) Write a case study on disaster risk reduction in India. 13,K2,CO2
13. a) Explain the importance of indigenous knowledge. How is it helpful in disaster management? 13,K2,CO3

*K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create*

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**OR**

b) Recommend the mitigation measures to conserve agriculture, water supply and air quality due to climate change. *13,K2,CO3*

14. a) Identify the Landslide-prone regions of India and suggest some measures to mitigate the disasters caused by these. *13,K2,CO4*

**OR**

b) What is GIS? Explain how this application helps in disaster management process. *13,K2,CO4*

15. a) Describe any flooding disaster that occurred in India and write the various lessons that you have learned from it. *13,K2,CO5*

**OR**

b) Illustrate about earthquake vulnerability assessment of buildings and infrastructure with case study. *13,K2,CO5*

**PART - C (1 × 15 = 15 Marks)**

16. a) Discuss in detail about drought assessment with case study. *15,K2,CO5*

**OR**

b) Discuss the various Components of Disaster Relief. Write down in detail about Phases and responses of disaster relief *15,K2,CO4*