Roll No…………………….. **Total No. of Printed Pages: [01]**

Total No. of Questions: [09]

B. Tech CSE (Semester – 8th)
DISASTER MANAGEMENT
Subject Code: BCIEO1-001
Paper ID: [18OE111129]

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(2 marks each)**

Q1. Attempt the following:

a) Define the following terms: Disaster, Hazard, Vulnerability, Risk, and Capacity.
b) Name and briefly explain the four main categories of disasters based on their causes.
c) Describe the trends and consequences of geological disasters, providing an example of each.
d) Give an example of a hydro-meteorological disaster and discuss its consequences.
e) Define "Global Disaster Trends" and briefly explain the concept of emerging risks in disasters.
f) Explain the Disaster Management Cycle and discuss its various phases.
g) Describe the paradigm shift in disaster management and the importance of risk assessment and analysis in the pre-disaster phase.
h) Discuss the components of the Early Warning System and their significance in disaster management.
i) Provide a brief overview of India's disaster profile, focusing on mega disasters, and mention the lessons learned from these events.
j) Explain the key provisions and significance of the Disaster Management Act 2005 and discuss the roles of different levels of government (local, state, and national) in disaster management in India.

Section – B **(5 marks each)**

Q2. Discuss the relationship between disaster, hazard, vulnerability, risk, and capacity. Provide examples to illustrate how these concepts interrelate in the context of disaster management.

Q3. Choose one type of geological disaster and one type of hydro-meteorological disaster. Explain the causes, consequences, and potential control measures for each.

Q4. Analyze the emerging risks of disasters, focusing on climate change and urban disasters. Describe how these risks are evolving and the implications for disaster management strategies.

Q5. Explain the Disaster Management Cycle, its phases, and the key activities associated with each phase. Illustrate the importance of early warning systems and preparedness in the context of disaster management.

Q6. Describe the paradigm shift in disaster management and the role of risk assessment in the pre-disaster phase. Discuss the significance of risk mapping, zonation, and micro-zonation in disaster preparedness and mitigation.

Section – C **(10 marks each)**

Q7. In-depth analysis of a specific geological disaster, including its causes, consequences, and control measures. Then, analyze the factors that contribute to the vulnerability of communities to this type of disaster.

Q8. Discuss the Disaster Management Cycle, highlighting the various phases and activities. Provide a detailed examination of the role of early warning systems, including the components and their effectiveness in reducing disaster impacts. Use real-world examples to illustrate their significance

Q9. Evaluate India's disaster management framework, focusing on the Disaster Management Act 2005 and its institutional and financial mechanisms. Discuss the National Policy on Disaster Management and the role of government agencies at different levels. Examine the challenges and improvements in India's disaster management approach.