

B.E. / Civil / Sem - III / 'C' Scheme / Subj: - DM&MM / Date: - 24/11/25

S.H. 2025

QP. Code: - 1009595

Duration: 3 hours

Total marks: 80

N.B:

1. Question No:1 is compulsory
2. Attempt any three questions from the remaining five questions.
3. Figures to the right indicates full marks

- Q 1 (20)
- a Explain the concept of Capacity building along with suitable example.
 - b Define the terms disaster, hazard, vulnerability and risk.
 - c State the do's and don't to be followed during outbreak of fire in a chemical factory.
 - d Mention the probable reasons of flash floods occurring in Northern parts of the country.
- Q 2 (20)
- a In what way haphazard urbanisation contributes to increased vulnerability to disasters. 10
 - b Describe the roles & functions of NIDM (National Institute of Disaster Management). 10
- Q 3 (20)
- a Describe the measures that are taken to preserve the environment in and around a nuclear power plant. Comment on the effectiveness of these measures with reference to some nuclear power plant in the nearby vicinity. 10
 - b Discuss the preventive measures for: i) Landslides. ii) Urban floods. 10
- Q 4 (20)
- a Describe the key provisions & objectives of Disaster Management Act, 2005. 10
 - b Describe the common causes of Industrial and Chemical Disaster. 10
- Q 5
- a Elaborate the importance of disaster risk mapping with focus on Role of GIS in the process. 10
 - b Discuss the role of NGO's in funding the pre-disaster and post disaster activities. 10
- Q 6 (20)
- a Discuss the Concept: Risk transfer and Risk financing with suitable examples. 12
 - b Elaborate on the PDCA cycle of disaster management. 08

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