

24 NOV 2025 BE CHEMICAL (SEM-VII) C SCHEME DMMM QP CODE: 10095995

**Duration: 3hours**

**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)**

- Explain the concept of Capacity building along with suitable example.
- Define the terms disaster, hazard, vulnerability and risk.
- State the do's and don't to be followed during outbreak of fire in a chemical factory.
- Mention the probable reasons of flash floods occurring in Northern parts of the country.

**Q 2**

**(20)**

- In what way haphazard urbanisation contributes to increased vulnerability to disasters. 10
- Describe the roles & functions of NIDM (National Institute of Disaster Management ). 10

**Q 3**

**(20)**

- 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
- Discuss the preventive measures for: i) Landslides. ii) Urban floods. 10

**Q 4**

**(20)**

- Describe the key provisions & objectives of Disaster Management Act, 2005. 10
- Describe the common causes of Industrial and Chemical Disaster. 10

**Q 5**

- Elaborate the importance of disaster risk mapping with focus on Role of GIS in the process. 10
- Discuss the role of NGO's in funding the pre-disaster and post disaster activities. 10

**Q 6**

**(20)**

- Discuss the Concept: Risk transfer and Risk financing with suitable examples. 12
- Elaborate on the PDCA cycle of disaster management. 08

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