

€ Sem III | Mech | (C-scheme) Nov 25 | 24.11.25

qp code - 95995

(171)

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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