

BE(CIVIL) / SEM- VII | R-19 C Scheme | DM & MM | 12/6/25

(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

- a Explain PDCA cycle of disaster management.
- b Define the terms disaster, hazard, vulnerability and risk.
- c Explain how global warming affects the water cycle and its various components.
- d Explain disaster management for floods in urban areas.

(20)

Q 2

- a What are droughts ? State the mitigation measures taken in drought prone areas.
- b Explain natural and man made disasters. Which disasters can be mitigated and how?

(20)

Q 3

- a Write a short note on DM Act 2005.
- b Describe in brief about the role of NGO's in disaster management.
- c Explain the concept of Capacity building along with suitable example.

(20)

Q 4

- a Discuss the applications of remote sensing and GIS in Disaster management process.
- b What are the scope and responsibilities of NIDM and NDMA ?

(20)

Q 5

- a What are the various methods of financial management during a disaster ? Explain the government's fund-raising system for disaster response and recovery.
- b Discuss the role of growing population, industrialization, urbanization, and changing lifestyles in contributing to environmental degradation. What measures can be taken to mitigate their impact?

10

10

Q 6

- a Write a note on Volcanic eruptions.
- b Explain with examples structural and non-structural mitigation measures
- c What are the dos and don'ts in the event of a Covid like pandemic?

(20)

08

06

06

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