

Roll No.

3524

**B. Tech. 7th Semester (Civil) Elective-III
Examination – May, 2023**

DISASTER MANAGEMENT AND MITIGATION

Paper : PEC-CEEL-407-G

Time : Three hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is compulsory. Attempt any *four* questions from each Section. All questions carry equal marks.

1. (a) Effects of disaster
- (b) Different bands to reduce effect of earthquake.
- (c) Write the importance of ozone layer for human being.
- (d) Mine disaster
- (e) Effects of Covid 19
- (f) Occurrence of a cyclone

SECTION - A

2. (a) What do you mean by a disaster ? Describe the role of an engineer to control any type of disaster.
(b) Describe in detail how the deforestation and industrialization affect the atmosphere.
3. (a) What is land disaster ? Describe in detail the consequences of geological mass movement.
(b) What do you understand by disaster mitigation ? Discuss the guiding principles underlying it.

SECTION - B

4. (a) What are man-made disasters ? Describe the effect of growing population and consequent urbanization and changing lifestyle of human beings on man-made disasters.
(b) Explain the causes and effects of land sliding. Also describe the preventive measures to control land sliding.
5. Describe the following :
 - (a) Volcanic eruption
 - (b) Global warming
 - (c) Cloud burst
 - (d) Storm and storm surge

3524- (P-3)(Q-9)(23) (2)

SECTION - C

6. (a) What are the causes of frequent occurrence of Bihar floods ? Describe the preventive measures of these floods.
(b) Explain in detail the disaster occurred in Bhuj and Uttarkashi.
7. Describe in detail the forest related disaster and mine disaster. Also mention the methods to reduce these disasters.

SECTION - D

8. What is the importance of public awareness for disaster management ? Describe in detail the preparation and execution of emergency management programme.
9. Write the names of different authorities working for disaster management. Describe their working and responsibilities in detail.

3524- (P-3)(Q-9)(23) (3)