

Roll No. \_\_\_\_\_

3524

B. Tech. 7th Semester (Civil) Elective-III

Examination – February, 2022

DISASTER MANAGEMENT AND MITIGATION

Paper: PEC-CEEL-407-C

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 : Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. (i) Differentiate between hazard and disaster on any three aspects. 2.5
- (ii) Write down the different forms of natural disasters. 2.5
- (iii) What is an emergency stage in disaster management? 2.5
- (iv) Explain the effects of planetary hazards. 2.5
- (v) Explain risk and vulnerability. 2.5

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(vi) Give three examples of human induced disasters.

2.5

#### UNIT - I

2. (a) Explain the various hazards affecting the environment. 7.5

(b) Describe the role of an individual and his contribution to disaster mitigation. 7.5

3. (a) What are the impacts of disasters on the socio-economic aspects of country? 7.5

(b) Discuss the class of information and their importance in recovery of the disaster situation. 7.5

#### UNIT - II

4. (a) What are the consequences of heavy floods? 7.5

(b) List the safety measures that can be taken to reduce damage due to earthquake. 7.5

5. (a) Differentiate human-induced Vs human-made disasters. 7.5

(b) Describe in detail chemical industrial disasters. 7.5

#### UNIT - III

6. Write short notes on :

15

(a) Risk and vulnerability analysis

(b) Environmental disasters

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7. Discuss the damage analysis due to Covid-19. 15

#### UNIT - IV

8. (a) How can awareness be created in the area of risk reduction? 7.5

(b) Describe the methods to teach awareness regarding disaster management. 7.5

9. (a) Discuss risk identification. 7.5

(b) Discuss Management Information Systems in the context of Disaster Management and Mitigation. 7.5

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