

B.Tech. (Civil) Elective - III

7th Semester (G - Scheme)

Examination, December-2022

DISASTER MANAGEMENT AND MITIGATION

Paper - PEC-CEEL-407-G

Time allowed : 3 hours]

[Maximum marks : 75

Note: Question No. 1 is compulsory. Attempt total five questions, selecting one question from each unit. All questions carry equal marks.

1. (i) What is the full name of NIDM and its formation year? 6×2½=15
- (ii) What is the full name of NDMA and its formation year?
- (iii) What is the scientific name of COVID-19?
- (iv) Name any four anthropogenic disasters.
- (v) Write about two reasons behind urbanization.
- (vi) What is a sink hole?

Unit - I

2. (a) Write a note on Geological Mass Movements and its relation with land disasters. 7½
- (b) Write a detailed note on any two atmospheric disasters. 7½

3. (a) What are the different approaches towards disaster mitigation? 7½
- (b) Describe the different terms used in Disaster Management. 7½

Unit - II

4. (a) What are the reasons behind floods and how can we mitigate those? 7½
- (b) Describe the phenomenon of Ozone Depletion in detail with possible effects. 7½
5. Write a detailed note on COVID-19 history and steps taken by NDMA to prevent its spread. 15

Unit - III

6. Write a detailed note on COVID-19 history and steps taken by NDMA to prevent its spread. 15
7. Describe the devices for particular contaminants :
- (i) Write a detailed case study of Kerala Floods.
- (ii) Suggest some Earthquake management practices in view of Bhuj Earthquake case study. 7½

Unit - IV

8. What do you mean by Public Awareness? Write about Information system can be used for public awareness in case of storms and earthquakes. 15
9. Define GIS. What are the applications of GIS in disaster management? 15