



GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

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Name of Examination : **Summer 2021** - (Preview)

Course Code & Course Name : **CE356U - Disaster Preparedness and Planning Management**

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Maximum Marks : **60**

Duration : **3 Hrs**

[Edit](#) [Print](#) [View Answer Key](#) [Close](#) **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

- | | |
|---|-----|
| 1) a) Discuss in general the concept of hazard, disaster and vulnerability. | [3] |
| OR | |
| b) Explain the term disaster preparedness in detail for landslide disaster. | [3] |
| c) Which are various manmade disasters? Explain with example Nuclear radiation and Artificial flooding in urban areas with respect to their hazardous effects on life and property, also give the main causes for them. | [6] |
| 2) a) Explain in detail nature and extent of disasters and give detail about cyclone and volcanoes. | [4] |
| OR | |
| b) Discuss overall mitigation strategies used to minimize the effects on life and property for any one disaster. | [4] |
| c) Explain a detailed 'Emergency management program' for disaster affected people in a massive earthquake disaster. | [5] |
| 3) a) Explain in detail rescue operation and casualty management for the following case study--- | [6] |
| In August 2018, the South Indian state of Kerala experienced heavy rainfall that triggered devastating floods, caused various losses of lives and properties. | |
| b) What is public awareness committee? Explain the functions of public awareness committee for any type of disaster. | [5] |
| OR | |
| c) Which type of disasters can be predicted in advance ? Explain in detail the concept of Early Warning System. Also discuss the role of Remote Sensing & GIS in Disaster Preparedness. | [5] |
| 4) a) Write in general about creation and execution of the emergency management programme and give importance of training of personnel. | [6] |
| b) How the development is closely related to disasters? Give the impact of developmental projects on disaster. | [4] |
| OR | |
| c) Explain the roles and responsibilities of local institutions and NGOs for disaster risk reduction. | [4] |
| 5) a) What should you do for water and food safety after the happening of disaster or emergency? | [5] |
| b) Explain in detail sustainable and environmental recovery of flood disaster. | [3] |
| OR | |
| c) Write a note on Vulnerability and Capacity assessment. | [3] |
| 6) a) Discuss about 'Financing relief expenditures'. Enlist various international relief organizations that are involved in disaster management & response. | [5] |
| b) Explain administrative set up and organization for emergency management in detail. | [4] |
| c) Write about emergency facilities and necessary emergency equipment for tsunami disaster. | [4] |

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