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**B. TECH.
(SEM VI) THEORY EXAMINATION 2018-19
DISASTER MANAGEMENT**

Time: 3 Hours**Total Marks: 100****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x 10 = 20**

- a. Define the term natural disaster.
- b. Explain the causes of landslides.
- c. What is cyclone emergency management?
- d. Discuss various impacts of droughts.
- e. Define erosion and sedimentation.
- f. What do you understand by population explosion?
- g. What are the effects of Tsunami?
- h. Discuss the environmental impacts of volcanic eruption.
- i. Explain the effects of flood.
- j. Define the term epicenter.

SECTION B**2. Attempt any three of the following: 10 x 3 = 30**

- a. How will you use the application of GIS and GPS in disaster risk management? Explain in detail.
- b. Why do earth quack occur? Suggest the management plan for mitigate the effects of earth quack. Explain the case of any earthquake that occurred in India.
- c. Write short notes on the following :
(i) Role of the district administration in disaster management
(ii) Cyclone warning and forecasting system.
- d. List the main features of the draft National Policy on disaster management in India. What are the environmental effects of oil spills and oil leaks?
- e. Describe various aspects of rehabilitation and resettlement.

SECTION C**3. Attempt any one part of the following: 10 x 1 = 10**

- (a) Briefly discuss major analytical systems for risk assessment. 'Risk can be reduced through community actions'. Discuss the various ways of community participation.
- (b) Explain the concept of sustainable community development. Also bring out the role of International Donor Agencies in disaster relief and reconstruction.

4. Attempt any one part of the following: 10 x 1 = 10

- (a) Explain the role of panchayats in disaster mitigations. Write a brief note on environmental policies adopted in India for natural disaster reduction.
- (b) Explain in detail chemical disaster. How do toxic chemicals disturb environmental balance?

5. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) What are the various causes of the soil erosion and how will you control the soil erosion? Also write the mechanism involved in soil erosion due to wind.
 - (b) Examine the role of governmental and non-governmental agencies in post-disaster reconstruction.
6. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) Write a detailed note on the Hazard Resistance Designs and Construction.
 - (b) Classify landslides and highlight the landslide reduction measures.
7. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) Give an account of environmental disasters and their management.
 - (b) Examine the relationship of vulnerability with sensitive population. Bring to light major issues to be considered in urban planning for effective disaster management.