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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech III Year II Semester Examinations, May - 2016
DISASTER MANAGEMENT
(Common to EEE, ME, ECE, CHEM, EIE, BME, IT, AE, AME, MIE, PTE, MSNT, AGE)

Time: 3 hours   Max. Marks: 75

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B
consists of 5 Units. Answer any one full question from each unit. Each question carries
10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

1.a) What is environmental hazard?   [2]
  b) How to prevent a Hazard from changing into a disaster?   [3]
  c) Give examples of Planetary Hazards.   [2]
  d) What are various types of environmental Hazards?   [3]
  e) Distinguish between tropical cyclones and local storms.   [2]
  f) What monitoring systems are used for tracing the path of cyclones?   [3]
  g) What are the hazardous effects of volcanoes?   [2]
  h) What causes earthquakes?   [3]
  i) What are the three stages of disaster management?   [2]
  j) List three pre-disaster activities to reduce the impact of cyclones.   [3]

PART - B

(50 Marks)

2.a) Distinguish between environmental stress, hazard and disaster giving examples.
  b) Describe Ecosystem approach to mitigate environmental stress. In what way it is
      different from the perception approach?   [5+5]

OR

3.a) How does human perception changes with environmental degradation? Discuss.
  b) How does landscape approach aid in reducing environmental stress? Give examples.
                                                                                 [5+5]

4.a) How is environmental hazard linked to ecology? Explain with respect to Drought.
  b) Drought and floods occur in the same region but at different times. Explain the reason.
                                                                                 [5+5]

OR

5.a) Distinguish between endogenous and exogenous hazards giving examples.
  b) Under what category will cyclones come? Explain with reasons.   [5+5]

6.a) In what Zones earthquakes occur in India? Explain the reason why it occurs in those
      Zones?
  b) What are the pre-disaster measures are taken to prevent loss of life due to this hazard?
                                                                                 [5+5]

OR

7.a)   What are the environmental effects due to volcanic eruption?
  b)   Discuss the methods that can be adopted to reduce the effect of volcanic eruption. [5+5]

8.a)   Under what category will you put Bhopal Gas tragedy in India?
  b)   What are toxic chemicals and describe a few measures that can be taken to reduce the impact of such events?   [5+5]

OR

9.a)   Describe the areas of flood hazard in India. What causes floods?
  b)   Describe at least three flood control measures to reduce the impact of flood disaster.
                                                                     [5+5]

10.a)   What are the pre disaster measures taken to manage earthquake disaster?
   b)   Relate the building collapse during earthquake to impact of earthquake disaster and explain both pre and post disaster measures undertaken to mitigate the sufferings of people in an earthquake situation.   [5+5]

OR

11.a)   Describe the measures taken during a land slide disaster.
   b)   What pre disaster measures would have reduced the impact of land slide disaster? Explain.   [5+5]

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