

B.Tech III Year II Semester (R15) Supplementary Examinations December/January 2018/2019

DISASTER MANAGEMENT & MITIGATION

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) How does a physical vulnerability defined?
 - (b) Ecology plays an important role in disaster nowadays-why?
 - (c) What are the two aspects of natural hazards?
 - (d) Is earthquake an endogenic hazard? Justify.
 - (e) Represent pictorially about convergent and divergent boundaries in plate tectonics.
 - (f) List out some Do's at school during an earthquake.
 - (g) Recall about a super cyclone that occurred in India.
 - (h) Population explosion is a biological hazard in current scenario. Comment.
 - (i) Draw the disaster management cycle.
 - (j) How can we transfer disaster risk?

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 "Air pollution directly causes health issues". Explain the statement by giving some examples.

OR

- 3 Discuss about the few pollutants which contribute to environmental degradation.

UNIT – II

- 4 Elaborate the aspects of natural hazards and differentiate it with the man made hazards.

OR

- 5 Which is more common either geological hazard or weather associated hazard? Brief about your suggestions.

UNIT – III

- 6 How does the following generate tsunamis? Discuss in detail:

(i) Volcanic eruptions. (ii) Landslides. (iii) Cosmic collisions.

OR

- 7 Discuss about seismic zoning mapping of India. Suggest a proper system to be adopted by government of India for risk reduction during earthquake.

UNIT – IV

- 8 Suggest some long term measures to escape from exogenous hazards and discuss any two measures in detail by suiting some examples.

OR

- 9 Comment on the topics nuclear explosion and release of toxic gases. Also explain the adverse effects on human beings by these two hazards.

UNIT – V

- 10 Describe the role of district and state administration in the disaster management process.

OR

- 11 Community contingency plan comprises of various stages through which it is implemented. Comment on this statement by suggesting how community is directly involved in disaster mitigation.
