

Roll No.

Total Pages : 3

218309

May, 2019

**M.TECH. CSE 3rd Semester (Reappear)
DISASTER MANAGEMENT (OEC-310)**

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) What is the difference between hazard and disaster? Explain. (1.5)
- (b) Differentiate natural and manmade disaster. (1.5)
- (c) Define landslide with suitable examples. (1.5)
- (d) What are the areas prone to earthquakes, cyclone and floods in India? (1.5)
- (e) What is a tsunami and discuss the advantages of installing warning systems? (1.5)
- (f) What are the seismic waves and related activities? (1.5)

- (g) Discuss UN draft resolution on Strengthening of Coordination of Humanitarian Emergency Assistance. (1.5)
- (h) What are the beneficial aspects of volcanism? (1.5)
- (i) What is the difference between hurricanes, cyclones and tornadoes? (1.5)
- (j) The anthropogenic activities supplement transformation of hazard into disaster. Comment. (1.5)

PART-B

- 2. What are different causes and phases of disasters? Differentiate between rapid and slow onset disasters. Explain the principles and different approaches involved in disaster management? (15)
- 3. What are the causes of flooding? How do they occur? What are the characteristics, impacts and mitigation of risks associated with flooding? Write about different methods and approaches for flood management. (15)
- 4. (a) What are the causes and physical characteristics of Tsunamis? Explain different approaches for mitigation of risks associated with Tsunamis. (8)
(b) Why do volcanic eruptions occur? Discuss the major types of volcanoes, telling which erupt gently and which erupt explosively. Explain volcanic hazards with suitable examples. (7)

- 5. Write short note on the following :
 - (a) Coastal erosion due to natural and manmade structures. (8)
 - (b) International Decade for Natural Disaster Reduction. (7)
- 6. (a) Discuss the structure and nature of tropical cyclones. (8)
(b) Can you suggest disaster management policy and standard procedure to effectively combat natural disasters and mitigate risks? What are the problems of financing and insurance associated? (7)
- 7. What is an Earthquake and explain different types and their distribution based on origin? What are the hazards and risks associated with earthquakes? Discuss the advantages of installing warning signals. (15)