

May 2023

B.Tech. - IV SEMESTER

Disaster Preparedness and Management (PCC-CE-203R & 204R)

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

- Q1 (a) Define Impact, Capacity and Hazard. (1.5)
- (b) What do you mean by disaster? (1.5)
- (c) Differentiate man made and natural disaster. (1.5)
- (d) What is soil erosion and coastal erosion? (1.5)
- (e) What do understand by climate change? (1.5)
- (f) Enlist the phases of disaster management cycle. (1.5)
- (g) What do mean by capacity assessment? (1.5)
- (h) What is the difference between structural and non-structural measures? (1.5)
- (i) Define sustainable development. (1.5)
- (j) What is urbanization? (1.5)

PART -B

- Q2 (a) Give brief explanation for risks, severity, frequency, prevention and mitigation. (10)
- (b) Differentiate hazard and vulnerability. (5)
- Q3 (a) Explain hazard and vulnerability profile of India. (5)
- (b) Discuss the classification of disasters, distinguishing between natural disasters and man-made disasters. Provide examples of each category and explain their characteristics. (10)
- Q4 Explain the demographic aspects that influence disaster impacts also discuss the specific vulnerabilities and challenges faced by different demographic groups. (15)
- Q5 (a) Define disaster risk reduction (DRR) and explain its significance in disaster management. (5)
- (b) Discuss the different phases of the disaster management cycle. (10)
- Q6 (a) Discuss the policies and legislation for disaster risk reduction. Analyze the activities and initiatives of the National Disaster Management Authority (NDMA) in India. (10)
- (b) Discuss the impact of land-use changes on vulnerability to disasters. (5)

P.T.O.

Q7 Discuss the factors that affect vulnerability to disasters, such as developmental (15) projects and environmental modifications. Analyze the potential risks associated with dams, land-use changes, and urbanization.
