

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B.Tech-VII Semester (CSE)

COURSE CODE (CREDITS): 21B1WCE831

MAX. MARKS: 15

COURSE NAME: DISASTER RISK ANALYSIS AND MANAGEMENT

COURSE INSTRUCTOR: Mr. Chandra Pal Gautam

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

(c) Use of calculator is allowed

Q.No	Question	CO	Marks
Q1	(i) Define disaster, disaster resilience and disaster risk. Discuss various types of disaster with suitable example. (ii) Discuss the relationship between Disaster risk, vulnerability, hazards and capacity.	CO-1	4
Q2	(i) Differentiate between hazards and vulnerability. (ii) Discuss various dimensions of vulnerability. (iii) Discuss various types of hazards. How the Power Law distribution is found in hazards.	CO-1	4
Q3	Discuss various types of Disaster Management and the key stages for the same. Take the example of earthquake and discuss the Disaster Management concept on it.	CO-1	3
Q4	Differentiate between Deterministic and Probabilistic approaches for risk assessment with suitable examples, merits and demerits.	CO-2	4