JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2025

B.Tech-VIII Semester

COURSE CODE (CREDITS): 21B1WCE831 (3)   MAX. MARKS: 15

COURSE NAME: DISASTER RISK ANALYSIS AND MANAGEMENT

COURSE INSTRUCTORS: DR. SAURAV   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

Q.No	Question	CO	Marks
Q1	Differentiate between hazards and vulnerability. Explain the key phases of disaster management in detail.	1	4
Q2	Explain in Detail the Characteristics and Damage Potential of Natural Hazards. Explain the first response in case of natural disaster Earthquake and Wild Fire. What is a landslide, and what steps should be taken to respond to it in an emergency situation?	2	5
Q3.	i) Given that A and B are events with $P(A) = 0.6, P(B) = 0.3$ and $P(A \cap B) = 0.2$, find $P(A|B)$. ii) If probability mass function of a random variable X is given by $$p_X(x) = \frac{b\lambda^x}{x!}, x = 0,1,2,\dots,\lambda > 0.$$ Find the numerical values for **a)** $P[X = 1]$ **b)** $P[X > 3]$	2	6