

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-3 EXAMINATIONS-2024

B.Tech.- VIII Semester (All)

COURSE CODE (CREDITS): 21B1WCE831 (3)

MAX. MARKS: 35

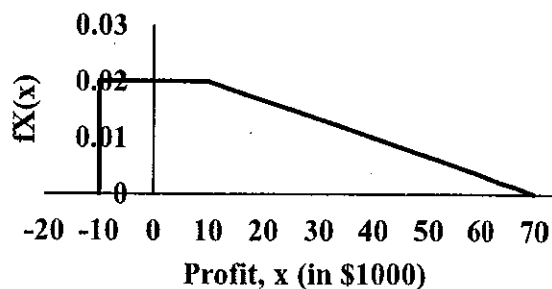
COURSE NAME: Disaster Risk Analysis and Management

COURSE INSTRUCTOR: Dr. Sugandha Singh

MAX. TIME: 2 Hour

Note: [1] All questions are compulsory. Marks are indicated against each question in square brackets.

1. In terms of Global Disaster Risk Reduction, answer the following questions: [CO4, 8]
 - a. List the priority actions mentioned in 2015 Sendai Framework for Disaster Risk Reduction. (2)
 - b. List the global targets as listed in the 2015 Sendai Framework for Disaster Risk Reduction. (3)
 - c. State how the global targets from Sendai Framework correlate with the United Nation's Sustainable Development Goals adopted in 2015. (3)
2. As stated in the Disaster Management Act 2005, describe the following: [CO4, 5]
 - a. Define disaster. (1)
 - b. List four powers and functions of the National Executive Committee (NEC). (2)
 - c. What should be included in the National Plan? (2)
3. The profit (in thousand dollars) of a construction project is described by the following PDF: [CO2, CO3, 5]
 - a. What is the probability that the contractor will lose money on this job? (2)
 - b. Suppose the contractor declares that he has made money on this project. What is the probability that his profit was more than forty thousand dollars? (3)



4. Answer the following questions based on the National Disaster Management Plan 2019: [CO4, 7]
 - a. What are the nodal ministries for the following disasters? (2)
 - i. Avalanche
 - ii. Earthquake
 - iii. Landslides
 - iv. Nuclear and Radiological
 - b. Describe the Disaster Management Cycle using the specific case of a Forest Fire disaster. (5)

5. Briefly describe the steps involved in the evaluation of a Cybersecurity Disaster on an Electric Power Grid. [CO4, 5]
6. From experience, it is known that, on average, 10% of welds performed by a particular welder are defective. If this welder is required to do three welds in a day, [CO1, 5]
- a. What is the probability that none of the welds will be defective? (1)
 - b. What is the probability that exactly two of the welds will be defective? (2)
 - c. What is the probability that all the welds will be for a day are defective? (2)

UNIT Test 3 Examinations June-2024