

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

T1 EXAMINATION- April 2019

B.Tech Semester 6

COURSE CODE: 10B11PD611

MAX. MARKS: 25

COURSE NAME: PROJECT MANAGEMENT

COURSE CREDITS: 3

MAX. TIME: 1.5 Hrs

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Calculators are allowed.

1. a. In what ways may the WBS be used as a key document to monitor and control a project?
b. What are the three major objectives of systems integration? (5 marks, CO3, CO5)
2. Give some major guidelines for choosing an organizational form for a project. (4 marks, CO5)
3. Explain with a relevant example the following types of risk and develop a strategy to deal with them: (3 marks, CO2)
 - a. Technology risk
 - b. People risk
 - c. Organizational risk
4. Two breakfast food manufacturing firms, Firms A and B are competing for an increased market share. The payoff matrix shown in the following table shows the increase in market share for Firm A:

Strategies Firm A	Firm B			
	Give coupons	Decrease price	Maintain present strategy	Increase advertising
Give coupons	35	65	25	5
Decrease price	30	20	15	0
Maintain present strategy	40	50	0	10
Increase advertising	55	60	10	15

Simplify the problem and find the optimal strategies for both the Firms. What is the value of the game? (5 marks, CO4)

5. Members of an emergency rescue squad know from past experience that they will receive between zero and six emergency calls each night, according to following probability distribution:

No. Of Calls	0	1	2	3	4	5	6
Probability	0.05	0.12	0.15	0.25	0.22	0.15	0.06

The rescue squad classifies each emergency call into one of the three categories. The probability that a particular call will be each type of emergency is as follows:

Emergency Type	Minor	Regular	Major
Probability	0.30	0.56	0.14

The type of emergency call determines the size of the crew sent in response. A minor, regular and major emergency requires a 2, 3 and a 5 person crew respectively.

From the above information simulate the emergency calls (both number and type) received by the rescue squad for 10 nights. Compute the average number of each type of emergency call and determine the maximum number of crew members that might be needed on any given night.

Use the following random numbers for:

The number of calls: 65,48,8,4,89,6,62,16,77,68.

Type of call: 71,18,12,17,89,18,83,90,18,8,26,47,94,72,47,68,60,88,36,43,28,31,6,39,71,22,76.

(8 marks, CO4)

JUIT TEST-2 EXAMINATION April 2019