National University of Computer and Emerging Sciences, Lahore Campus



Course: Introduction to Software Project

Management

Program: BS (Computer Science)

Duration: 90 Minutes Paper Date: 17-Jun-2020

Section: A,B Exam: Quiz 2 Course Code: CS-450 Semester: Spring 2020

Total Marks: 10
Weight 5 %
Page(s): 1
Roll No.

- 1. Refer to the activity estimates and precedents below.
 - a. Replace D1-D10 with any number(s) between 1 and 10 randomly. You may use a number more than once, however, do not use the same number for all durations, or any obvious/systematic pattern like 1 for D1, 2 for D2, etc.
 - b. Create a precedence network, using the following labeling conventions:

Activity label		Duration	
Earliest start	Activity description		Earliest finish
Latest start			Latest finish
Activity	span	FI	oat

Hint: You may draw a rough network using simple boxes, and when you have worked it out, then draw the detailed one with the labeling conventions.

c. Perform forward pass and backward pass, calculate the span and float and identify the critical path(s).

Note: Use Week 0 as the starting point and the week number used should indicate the end of each week. Calculate the numbers accordingly.

Activity ID	Activity Description	Estimated Duration (Weeks)	Precedent s
1	Develop Specifications	D1	
2	Design Hardware	D2	1
3	Design Software	D3	1
4	Develop User Manual	D4	1
5	Build Hardware	D5	2
6	Code Software	D6	3
7	Load Data	D7	5,6
8	Test	D8	5,6
9	Train Users	D9	4,8
10	Deploy	D10	7,9