

National University of Computer and Emerging Sciences, Lahore Campus



Course: Introduction to Software Project Management
Program: BS (Computer Science)
Duration: 60 Minutes
Paper Date: 25-Feb-2020
Section: A, B & C
Exam: Mid 1

Course Code: CS-450
Semester: Spring 2020
Total Marks: 30
Weight: 15 %
Page(s): 1
Reg. No.

Instruction/Notes: All questions carry equal marks.

1. What are the various “creeps” that can occur related to a project? What are the causes of and what can be done to control each of these effects?
2. Describe net profit, payback period and return on investment (ROI) along with their disadvantages.
 - a) Calculate net profit, payback period and return on investment (ROI) for each of the projects A, B and C. Cash flow is given in below table.

Year	Project A	Project B	Project C
0	-100,000	-100,000	-1,000,000
1	30,000	10,000	200,000
2	30,000	10,000	200,000
3	30,000	10,000	200,000
4	30,000	20,000	200,000
5	30,000	100,000	300,000

- b) Describe which project based on above calculation is the most worthwhile. Support your answer.
3. Briefly define each of the following categories of estimation models:
 - a) Algorithmic Models
 - b) Expert Judgement
 - c) Analogy
 - d) Bottom-Up

Also indicate which of these models are more generally suitable at each of the following stages of the project management lifecycle and why:

- i. Feasibility Study
- ii. Project Planning
- iii. Activity Estimation