

POKHARA UNIVERSITY

Level: Bachelor

Semester: Spring

Year : 2023

Programme: BE

Full Marks: 100

Course: Software Project Management

Pass Marks: 45

Time : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. a) What is Software Project Management? What are the major activities in SPM? 8
b) What is software Economics? Explain about the factors affecting software Economics showing the relationship. 7
2. a) What are the disadvantages of waterfall model? Explain Five Improvements for the Waterfall Model to Work. 8
b) Explain the software process workflow and iteration workflow with examples. 7
3. a) Explain about the various phases of Software Development Life Cycle. 8
b) What are the different Artifact Sets? Describe them with their purpose and notation. 7
4. a) What do you mean by WBS? Why use a WBS in project management? Explain. 7
b) Explain Line of Business Organization with different Roles and Responsibilities. 8
5. a) Explain different levels of Automation with different workflow tools. 7
b) What do you mean by process customization? Explain the different types of CASE tools. 8

6. a) A project has the following characteristics:

Activity	Estimated Duration (Weeks)		
	Optimistic (t _o)	Most likely (t _m)	Pessimistic (t _p)
1-2	1	5	1.5
2-3	1	3	2
2-4	1	5	3
3-5	3	5	4
4-5	2	4	3
4-6	3	7	5
5-7	4	6	5
6-7	6	8	7
7-8	2	6	4
7-9	5	8	6
8-10	1	3	2
9-10	3	7	5

Construct a PERT network. Find the critical path and variance for each event. 8

- b) Explain the success and failure profile of project with example.
7. Write short notes on: (Any two) 2x5
 - a) Major and minor milestones.
 - b) Modern Software Management Principles.
 - c) Software Assessment Team