

Pokhara University

Everest Engineering College

Final Internal Assessment Fall- 2024

Bachelor Level:

F.M. 100

Program: BE CMP

P.M. 45

Science & Technology Faculty:

Time: 3hrs

7

8

8

7

8

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7

Section: A/B

b)

Subject: Software Engineering (5th Semester)

Attempt all the questions.

What is Software Engineering? What are Four P of Software Project

Management. What is Agile Project Management. Why Prototype Model is better than Waterfall Model?

 a) For a project with the size of 300 KLOC. Calculate the Effort, Scheduled time for development. Also Calculate the average resource size and productivity of the software for Organic Project Type.

size and product	a	b	C	d
Project Type	2.4	1.05	2.5	0.38
Organic	2.4	1.12	2.5	0.35
Semi Detached	3	1.12	2.5	0.32
Embedded	3.6	12	2.3	7.02

Draw a Use Case Diagram of ATM Machine mentioning actors and all the relationship

What are the types of requirements? Explain the requirement elicitation 3 techniques.

What is Architectural Design? Explain about Interface, Component and Database Design.

What are the difference between Verification and Validation? What is a) 4 Alpha Testing and Beta Testing?

What is SQA? Mention Software Quality Assurance Activities. b)



5	a)	What is Software Configuration Management? What are the different				
	L \	Software Configuration Items? SOFTDOP				
	b)	Explain the role of Cloud and AI in Software Engineering.				
6	a)	What are test cases? Write about Boundary Value Analysis with an example and necessary steps.				
	b)	Draw a Sequence Diagram of Food Ordering System				
		(245-10)				
7	Write short notes on: (Any two) (2*5=10)					
		a) Feasibility Study				
		b) Object Oriented Analysis and Design				
		c) Software Reengineering				

Best Wishes