

# GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION – SUMMER 2025

Subject Code:3171609

Date:21-05-2025

Subject Name:Software Project Management

Time:02:30 PM TO 05:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) What is Software Project Management?	03
	(b) Discuss ways of Categorizing Software.	04
	(c) Describe major phases of project management life cycle.	07
Q.2	(a) Discuss PERT with suitable example.	03
	(b) What is Software Prototyping? Explain.	04
	(c) Discuss the role of cost estimation in software development project. Briefly explain COCOMO model for cost estimation for all categories of project.	07
<b>OR</b>		
	(c) Discuss function point analysis with suitable example.	07
Q.3	(a) List and Explain in brief the steps of Project Planning.	03
	(b) Explain SCM with its advantages.	04
	(c) Describe Gantt Chart used to plan scheduling of projects with example.	07
<b>OR</b>		
Q.3	(a) Why Software Maintenance is necessary?	03
	(b) Discuss Capability Maturity Model (CMM).	04
	(c) What is Process Model? Which criteria should we consider while choosing it?	07
Q.4	(a) List various SQA activities and explain any one of them.	03
	(b) Discuss approach of risk categorization.	04
	(c) Explain: 1) Re-Engineering 2) Reverse Engineering.	07
<b>OR</b>		
Q.4	(a) What is SRS? What is the use of SRS?	03
	(b) Describe Product breakdown structure.	04
	(c) Why are standards important for software? Briefly explain ISO standards for software organization.	07
Q.5	(a) Briefly Discuss Critical Path analysis.	03
	(b) Discuss Stress and its significance in IT projects.	04
	(c) Explain different phases of software maintenance process with figure.	07
<b>OR</b>		
Q.5	(a) Categorize version control models with diagrams.	03
	(b) Briefly explain Elements in Closure Analysis Report.	04
	(c) Explain Software Configuration Management in detail.	07

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