PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech / Int. B.Tech Winter 2024-25 Examination

Semester: 5 & 9   Date: 13/11/2024
Subject Code: 303105253   Time: 02:00 pm to 04:30 pm
Subject Name: Software Engineering   Total Marks: 60

Instructions:

1. This question paper comprises of two sections. Write answer of both the sections in separate answer books.
2. From Section I, **Q.1 is compulsory, attempt any THREE from Q. 2 to Q. 5**
3. From Section II, **Q.6 is compulsory, attempt any THREE from Q. 7 to Q. 10**
4. Make suitable assumptions wherever necessary.
5. Start new question on new page.

	Section-A (30 Marks)		CO	PO	Bloom's Taxonomy
Q.1	**Objective Type Questions** - (State, Define, List, etc) (All are compulsory and each of two marks)	(6)			
	1. What do you mean by Data & Process?		1	1	L1
	2. What do you mean by Agile & KLOC??		1	2	L2
	3. Differentiate between Data & Information?		2	2	L4
Q.2	**Answer the following questions**.				
	A) Define the term Error & Defects.	(2)	1	2	
	B) Explain Unit testing in detail?	(6)	2	2	L1,L3
Q.3	**Answer the following questions**.				
	C) What is SRS & SQA?	(2)	2	3	L6
	D) What is SRS document? What are the major characteristics of SRS?	(6)	2	2	
Q.4	**Answer the following questions**.				
	A) What is the Full Form of SDLC & UML?	(2)	2	2	L1
	B) List down all the characteristics/ properties of a good software.	(6)	1	1	L2
Q.5	**Answer the following questions**.				
	A) RMMM stands for _____. And SCM stands for _____.	(2)	1	3	L1
	B) Explain COCOMO Model.	(6)	1	2	L1
	Section-B (30 Marks)				
Q.6	**Objective Type Questions** - (State, Define, List, etc) (All are compulsory and each of two marks)	(6)			
	1. Define the terms software testing & Data Validation.		1	2	L1
	2. Write short note on: Effort and cost estimation		1	1	L2
	3. Define: Software Reliability & Stack holder		2	3	L5
Q.7	**Answer the following questions**.				
	A) Define the term Code Inspection & Software Reliability	(2)	1	2	L1
	B) Explain W5HH Principle.	(6)	2	4	L5
Q.8	**Answer the following questions**.				
	A) Write difference between Cohesion and Coupling.	(2)	1	1	L1

	B) Explain the difference between unit testing and integration testing?	(6)	2	4	L3
Q.9	**Answer the following questions**.				
	A) Scrum is a _____, which helps software engineer or developer in completing _____ projects.	(2)	1	2	L1
	B) what is incremental model? What are the advantages of it.	(6)	1	3	L1,L4
Q.10	**Answer the following questions**.				
	A) In object-oriented design _____, _____, _____, _____, _____ and _____ principles are used.	(2)	1	1	L1
	B) Explain Dependable Systems.	(6)	1	5	L1