



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.																			
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Mid - Term Examinations - March 2026

Date: 14-03-2026

Time: 02:00pm - 03:30pm

School: SOCSE	Program: B.Tech (CSE and Allied)	
Course Code: CSE2271	Course Name: Software Design and Development	
Semester: IV	Max Marks: 50	Weightage: 25%

CO - Levels	C01	C02	C03	C04	C05
Marks	26	24	-	-	-

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	Define IEEE Definition of Software Engineering, What are the key activities involved in software engineering practice?	2 Marks	L1	C01
2	What is software Development Life cycle? List stages of Software Development Life Cycle?	2 Marks	L1	C01
3	Explain the purpose of requirements elicitation?	2 Marks	L1	C02
4	Define requirements engineering?	2 Marks	L1	C02
5	Illustrate the Waterfall Model of software development with a clear diagram?	2 Marks	L1	C01

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Discuss how testing and maintenance are handled in the Waterfall Model. Why is maintenance often considered the most expensive phase?	10 Marks	L2	CO1
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Or

7.	a.	Define software engineering ethics. Explain any four ethical principles that software engineers should follow.	10 Marks	L2	CO1
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8.	a.	Explain the different phases of the Waterfall Model with a neat diagram. Discuss its advantages and limitations.	10 Marks	L2	CO1
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Or

9.	a.	What are evolutionary models? Explain the types of prototyping.	10 Marks	L2	CO1
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10.	a.	Draw and explain an activity diagram for an online food ordering system.	10 Marks	L2	CO2
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Or

11.	a.	What is a Software Requirements Specification (SRS)? Discuss its characteristics.	10 Marks	L1	CO2
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12.	a.	Explain the process of requirement analysis and validation. Why is validation necessary even after analysis?	10 Marks	L1	CO2
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Or

13.	a.	Why are non-functional requirements important in software development? Differentiate between functional and non-functional requirements, providing examples of each.	10 Marks	L1	CO2
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