

**University of Mumbai**  
**Examination Second Half 2021**

Examinations Commencing from 22<sup>nd</sup> November 2021 to 5<sup>th</sup> January 2022

Program: **Computer Engineering**

Curriculum Scheme: Rev 2016

Examination: TE Semester V

Course Code: CSC502 and Course Name: Software Engineering

Time: 2 hour 30 minutes Max. Marks: 80

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<b>Question Number</b>	<b>Correct Option (Enter either 'A' or 'B' or 'C' or 'D')</b>
Q1.	C
Q2.	A
Q3.	A
Q4	B
Q5	D
Q6	D
Q7	B
Q8.	D
Q9.	C
Q10.	A

<b>Q2 A</b>	<b>Solve any Two Questions out of Three</b>	<b>5 marks each</b>
I	Explain linear sequential model stating its advantages and disadvantages. <b>Answer:</b> Explanation Advantages and Disadvantages	3 marks 2 marks
II	Illustrate design principles. <b>Answer:</b> 5 Design principle with explanation	5 marks
III	Compare prototype and spiral model. <b>Answer:</b> 5 differences	1 mark each

<b>Q2 B</b>	<b>Solve any one Questions out of Two</b>	<b>10 marks each</b>
I	What is coupling and Cohesion? Explain types of cohesion with example. <b>Answer:</b> Explanation At least 5 types of cohesion with eg.	5 marks 5 marks
II	What is maintenance? Explain it with types of maintenance. <b>Answer:</b> What is maintenance 5 types of maintenance	5 marks 5 marks

<b>Q3</b>	<b>Solve any Two Questions out of Three</b>	<b>10 marks each</b>
A	Illustrate SCM Process. <b>Answer:</b> all stages with explanation	10 marks
B	What are agile methodologies? Explain any one of them. <b>Answer:</b> What is agile methodology Anyone agile methodology with diagram	4 marks 6 marks
C	What are the testing strategies? <b>Answer:</b> testing strategies with eg.	10 marks

<b>Q4</b>	<b>Solve any Two Questions out of Three</b>	<b>10 marks each</b>
A	Differentiate between white box and black box testing. <b>Answer:</b> 10 differences	10 marks
B	What is use case diagram? Draw the use case diagram for library management system. <b>Answer:</b> explanation of use case diagram with example Use case diagram for library management system	5 marks 5 marks
C	Explain the process of CMM <b>Answer:</b> Diagram of CMM with all levels Explanation of each level	5 marks 5 marks