

University of Mumbai

Program: **Computer Engineering**

Curriculum Scheme: Rev 2016

Examination: TE Semester

Course Code: CSC502 and Course Name: Software Engineering

Time: 2 hour 30 minutes Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Following is not the level of CMM:
Option A:	Initial
Option B:	Repeatable
Option C:	Compared
Option D:	Optimization
2.	Incremental Process Model is useful when
Option A:	Enough staffing is not available for the whole project
Option B:	When project is very small
Option C:	When Project cost is High
Option D:	All of the above
3.	The Negotiation is software engineering task which focuses on
Option A:	Agreement between developers and customers w.r.t. a deliverable system that is realistic for both
Option B:	Describing the requirements formally or informally.
Option C:	Review the requirement specification for errors, ambiguities, omissions, and conflicts.
Option D:	Manage changing requirements.
4.	Which stakeholder has to control all other P's in management spectrum
Option A:	Business Analyst
Option B:	Project Manager
Option C:	System Analyst
Option D:	Software Tester
5.	Finding out that which task should perform parallel and which not comes under following principal of project scheduling

Option A:	Compartmentalization
Option B:	Time allocation
Option C:	Defined responsibilities
Option D:	Interdependency
6.	which of the following is not the view of a component
Option A:	An object-oriented view
Option B:	A conventional view
Option C:	A process-related view
Option D:	Inherited view
7.	The Document which describes the software Design phase with respect to SDLC
Option A:	SRS
Option B:	SDS
Option C:	Test Plan
Option D:	Test release Notes
8.	One of these is not the benefit of the Software Configuration Management (SCM) Process
Option A:	Manage changes for SCI
Option B:	Maintaining software Quality
Option C:	Managing versions
Option D:	Manage Test execution
9.	Alpha testing is done at
Option A:	Customers location under controlled environment
Option B:	Customers location under uncontrolled environment
Option C:	Developers location under controlled environment
Option D:	Developers location under uncontrolled environment
10.	Graph based testing is
Option A:	Black box testing
Option B:	White box testing
Option C:	Stress testing
Option D:	Performance testing

Q2 A	Solve any Two Questions out of Three	5 marks each
I	Explain linear sequential model stating its advantages and disadvantages.	
II	Illustrate design principles.	
III	Compare prototype and spiral model	

Q2 B	Solve any one Questions out of Two	10 marks each
I	What is coupling and Cohesion? Explain types of cohesion with example.	
II	What is maintenance? Explain it with types of maintenance.	

Q3	Solve any Two Questions out of Three	10 marks each
A	Illustrate SCM Process.	
B	What are agile methodologies? Explain any one of them.	
C	What are the testing strategies?	

Q4	Solve any Two Questions out of Three	10 marks each
A	Differentiate between white box and black box testing.	
B	What is use case diagram? Draw the use case diagram for library management system.	
C	Explain the process of CMM.	