University of Mumbai
Examination June 2021

Examinations Commencing from 1st June 2021

Program: **Computer Engineering**

Curriculum Scheme: Rev2016

Examination: TE Semester VI

Course Code: CSC601 and Course Name: Software Engineering

Time: 2 hour Max. Marks: 80

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Q1.	**Choose the correct option for following questions. All the Questions are compulsory and carry equal marks**
1.	What is the major advantage of using Incremental Model?
Option A:	Customer can respond to each increment
Option B:	Easier to test and debug
Option C:	It is used when there is a need to get a product to the market early
Option D:	Easier to test and debug & It is used when there is a need to get a product to the market early
2.	The spiral model was originally proposed by
Option A:	IBM
Option B:	Barry Boehm
Option C:	Pressman
Option D:	Royce
3.	How is Incremental Model different from Spiral Model?
Option A:	Progress can be measured for Incremental Model
Option B:	Changing requirements can be accommodated in Incremental Model
Option C:	Users can see the system early in Incremental Model
Option D:	All of the mentioned
4.	SDLC stands for
Option A:	Software Development Life Cycle
Option B:	System Development Life cycle
Option C:	Software Design Life Cycle
Option D:	System Design Life Cycle
5.	How many phases are there in Scrum ?
Option A:	Two
Option B:	Three
Option C:	Four
Option D:	Scrum is an agile method which means it does not have phases
6.	Which one of the following is a functional requirement ?
Option A:	Maintainability
Option B:	Portability
Option C:	Robustness
Option D:	None of the mentioned

7.	The user system requirements are the parts of which document ?
Option A:	SDD
Option B:	SRS
Option C:	SPR
Option D:	SCR
8.	In XP Increments are delivered to customers every _____ weeks.
Option A:	1
Option B:	2
Option C:	3
Option D:	4
9.	Which four framework activities are found in the Extreme Programming(XP) ?
Option A:	analysis, design, coding, testing
Option B:	planning, analysis, design, coding
Option C:	planning, design, coding, testing
Option D:	planning, analysis, coding, testing
10.	“Consider a system where, a heat sensor detects an intrusion and alerts the security company.” What kind of a requirement the system is providing ?
Option A:	Functional
Option B:	Non-Functional
Option C:	Known Requirement
Option D:	None of the mentioned
11.	What is the first step of requirement elicitation
Option A:	Identifying Stakeholder
Option B:	Listing out Requirements
Option C:	Requirements Gathering
Option D:	All of the mentioned
12.	How many phases are there in Requirement Analysis ?
Option A:	2
Option B:	3
Option C:	4
Option D:	5
13.	Which of the following property does not correspond to a good Software Requirements Specification (SRS) ?
Option A:	Verifiable
Option B:	Ambiguous
Option C:	Complete
Option D:	Traceable
14.	Which model in system modelling depicts the static nature of the system ?
Option A:	Behavioral Model
Option B:	Context Model
Option C:	Data Model
Option D:	Structural Model

15.	Which of the following is the task of project indicators:
Option A:	help in assessment of status of ongoing project
Option B:	track potential risk
Option C:	help in assessment of status of ongoing project & track potential risk
Option D:	none of the mentioned
16.	What is Cyclomatic complexity?
Option A:	Black box testing
Option B:	White box testing
Option C:	Yellow box testing
Option D:	Green box testing
17.	White Box techniques are also classified as
Option A:	Design based testing
Option B:	Structural testing
Option C:	Error guessing technique
Option D:	None of the mentioned
18.	Boundary value analysis belong to?
Option A:	Black box testing
Option B:	White box testing
Option C:	Yellow box testing
Option D:	Green box testing
19.	How is software reliability defined?
Option A:	time
Option B:	efficiency
Option C:	quality
Option D:	speed
20.	The UML was designed for describing _____
Option A:	object-oriented systems
Option B:	architectural design
Option C:	SRS
Option D:	Both object-oriented systems and Architectural design

Q2. **(20 Marks Each)**	**Solve any Two Questions out of Three** **10 marks each**
A	Explain Spiral model.
B	Describe Requirement Elicitation.
C	Explain COCOMO model with example.

Q3. **(20 Marks)**	**Solve any Two Questions out of Three** **10 marks each**
A	Explain Cohesion with its types.
B	Difference between FTR and Walkthrough
C	Explain Black box testing