T.E. (IT) CSem-I) CCBCGS) (R-20-21) (CC Scheme)

University of Mumbai Examinations Summer 2022

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.	The process of developing a software product using software engineering principles and methods is referred to as
Option A:	Software Engineering
Option B:	Software Evolution
Option C:	System Models
Option D:	Software Models
2.	Which of the following is not a maturity level in CMM.
Option A:	Repeatable
Option B:	Design
Option C:	Managed
Option D:	Optimizing
3.	project usually has a timeline chart which was developed by
Option A:	Barry Boehm
Option B:	Henry Gantt
Option C:	Ivar Jacabson
Option D:	None of the mentioned
4.	The process to gather the software requirements from client, analyze and document them is known as
Option A:	Feasibility Study
Option B:	Requirement Gathering
Option C:	Requirement Engineering
Option D:	System Requirements Specification
5	Which may be estimated either in terms of KLOC Kilo Line of Code or by calculating number of function points in the software.
Option A:	Time estimation
Option B:	Effort estimation
Option C:	Cost estimation
Option D:	Software size estimation
6.	Risk management is one of the most important jobs for a.
Option A:	Client
Option B:	Investor
Option C:	Production team

7.	Militaria Citaria	
	Which of the following is not a Software Configuration Management Activity.	
Option A:	Release management	
Option B:	Configuration item identification	
Option C:	Risk management	
Option D:	Branch management	
8.	Software Configuration Management can be administered in several ways Thes include	
Option A:	Software Configuration Management distributed among the project members	
Option B:	A single software configuration management team for the whole organization	
Option C:	A separate configuration management team for each project	
Option D:	All of the mentioned	
9.	Test cases should uncover errors like	
Option A:	Incorrect logical operators or precedence	
Option B:	Nonexistent loop termination	
Option C:	Comparison of different data types	
Option D:	All of the mentioned	
19.	Cyclomatic Complexity method comps under util 1	
Option A:	Cyclomatic Complexity method comes under which testing method. Yellow box	
Option B:	White box	
Option C:	Gray box	

Q2. (20 Marks Each)	Solve any Two Questions out of Three	10 marks each
Α	With a neat diagram explain the Spiral model of soft projotyping used in spiral model.	ware development. How
В	Explain Scrum agile development model.	
C	Build an SRS document for online student feedback sy. It should contains following: 1. objective and scope 2. Functional Requirement	stem.
	3. Non Functional Requirement	

Q3. (20 Marks Each)	Solve any Two Questions out of Three	10 marks each
\mathbf{A}	Explain different specialized Estimation Techniques.	
В	What is Earned Value Analysis in Project tracking example.	concept. Explain with
\mathbf{c}	Design Architecture for E-commerce System.	

Q4. (20 Marks Each)	Solve any Two Questions out of Three	10 marks each
A	Explain the steps involved in setting up or generating give RMMM plan for risk management.	ng RMMM plan and also

В	Describe how change control and version of Software Configuration Management.	control is carried out during
С	Write a short notes on Alpha and Beta Testing.	