## Program: Computer Engineering Curriculum Scheme: 2019 Examination: SE Semester V

Course Code: CSC502 and Course Name: Software Engineering

Time: 2 hours 30 Minutes Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	What are the major activities of the spiral model of software engineering?
Option A:	Defining, Prototyping, Testing, Delivery
Option B:	Planning, Risk Analysis, Engineering, Customer Evaluation
Option C:	Quick Design, Build Prototype, Evaluate Prototype, Refine Prototype
Option D:	Requirements
2.	A model in which project management processes were step-by step.
Option A:	Incremental
Option B:	Waterfall
Option C:	Spiral
Option D:	Prototyping
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3.	Which model is the demo implementation of the system?
Option A:	Waterfall
Option B:	Prototype
Option C:	Incremental
Option D:	Agile
Option B.	
4.	In which stage individual components are integrated and ensured that they are error-free
7.	to meet customer requirements
Option A:	Coding
Option B:	Testing
Option C:	Design
Option D:	Implementation
Орион Б.	Implementation
5.	What do you call, when the elements of a module, all operate on the same data?
Option A:	Functional
Option B:	Temporal
Option C:	Communicational
Option C:	Procedural
Option D.	Troccadiai
6.	A design is said to be a good design if the components are
Option A:	Strongly coupled
Option B:	Weakly cohesive
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Option C:	Strongly coupled and weakly cohesive Strongly cohesive and weakly coupled
Option D:	Strongry conesive and weakiy coupled
7	In abooging a dayslanment life avale model, one would associate the
7.	In choosing a development life-cycle model, one would consider the
Option A:	Organizational Structure, User Tasks, Performance Criteria
Option B:	Development Group Expertise, Problem Characteristics, User Expectations
Option C:	Languages, Development Schedule, Competition
Option D:	System Context, User Population, Platforms

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8.	What do you call when two modules are coupled, when they communicate via a
0	composite data item?
Option A:	Content coupling
Option B:	Common coupling
Option C:	Stamp coupling
Option D:	Data Coupling
9.	How does a software project manager need to act to minimize the risk of software
	failure?
Option A:	Double the project team size
Option B:	Subtractive
Option C:	Multiplicative
Option D:	Division
10.	The degree of interaction between two modules is known as
Option A:	Cohesion
Option B:	Strength
Option C:	Coupling
Option D:	Inheritance
11.	Which of the following is not the guiding principle of software project scheduling?
Option A:	Market assessment
Option B:	Compartmentalization
Option C:	Time allocation
Option D:	Effort validation
12.	If a control switch is passed as an argument this is an example of coupling.
Option A:	Content
Option B:	Common
Option C:	Control
Option D:	Data
13.	In Intermediate COCOMO the mode that represents complex products is referred to as
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Option A:	Embedded
Option B:	Semidetached
Option C:	Organic
Option D:	Multiplicative
4.4	
14.	In planning a software project one would
Option A:	Find ways to produce results using limited resources
Option B:	Pad the schedule to accommodate errors
Option C:	Overestimate the budget
Option D:	Structure the team to prevent administrative interference
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15.	Empirical estimation models are typically based on
Option A:	Expert judgment based on past project experiences
Ontine D	Definement of automatematics
Option B:	Refinement of current project estimation  Trial and error determination of the parameters and coefficients
Option C:	Trial and error determination of the parameters and coefficients
Option D:	Refinement of current project estimation
1.0	Which configuration chicate would not trained by he form I in the market detailed 0
16.	Which configuration objects would not typically be found in the project database?
Option A: Option B:	Executable code  Marketing data
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Option C:	Design specification
Option D:	Test plans
17.	Software Engineering is defined as
Option A:	Is a set of rules about developing software products
Option B:	Is a set of rules about developing software products
Option C:	Started as a response to the so-called 'Software Crisis' of the late 90's
Option D:	Is an engineering discipline concerned with all the aspects of software production
18.	Equivalence Partitioning comes under which type of Testing?
Option A:	White box testing
Option B:	Black box testing
Option C:	Grey Box Testing
Option D:	Regression Testing
19.	A simple way of looking at the spiral software life-cycle model is as a waterfall model
	with each phase proceeded by
Option A:	Freezing
Option B:	Build-and-fix
Option C:	Risk Analysis
Option D:	Synchronization
20.	Software configuration activities would not include
Option A:	Identify change
Option B:	Ensure improper implementation of change
Option C:	Control change
Option D:	Report change to interested parties

Q2.	Solve any Four Questions out of Six 05 marks each
(20 Marks)	Solve any 1 our Questions out of Sin
A	What are potential problems of prototyping model?
В	Explain with suitable diagram Scrum Agile Model.
С	What do you understand by software maintenance? Also explain different types of software maintenance
D	Explain the term Configuration management.
Е	What are the benefits of metrics in software engineering?
F	Compare waterfall and spiral model
Q3.	Solve any Two Questions out of Three 10 marks each
(20 Marks )	
A	Explain concept of data flow diagram.
В	Why Integration testing is needed to test software? Explain different incremental integration strategies
С	What are the different categories of Risks? Explain the steps in developing RMMM plan.
Q4.	Solve any Two Questions out of Three 10 marks each
(20 Marks )	
A	Explain COCOMO II estimation model.
В	Explain Black box testing with its types.
С	Explain in detail the Software Configuration Management process with suitable diagram