T.E. C Comps) Csem-VI) (CB CGS)

Software Engineering

(May-2022)

University of Mumbai Examinations Summer 2022

Time: 2hour 30 minutes Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal 2 marks		
1.	Which of these software engineering activities are not a part of software processes?		
Option A:	Software dependence		
Option B:	software development		
Option C:	Software validation		
Option D:	Software specification		
2.	Cyclomatic complexity V(G) for a graph G is defined as where E = the number of flow graph edges, and N=the number of flow graph nodes		
Option A:	$V(G) = \sum_{i=1}^{n} E = N + 2$		
Option B:	V(G) = N - E + 2		
Option C:	$V(G) \neq S \to E \neq N+1$		
Option D:	V(G) = N - E + 1		
3. Option A:	Which of the following is not the Phases of Unified Process? Inception phase		
	inception phase		
Option B:	Elaboration phase		
Option C:	Construction phase		
Option D:	Translation phase		
4.	Which model assumes that systems are created from reusable components, scripting or database programming?		
Option A:	A post-architecture model		
Option B	An application-composition model		
Option C:	A reuse model		
Option D:	An early design model		
5.	Identify the disadvantage of Spiral Model.		

Option A:	Doesn't work well for smaller projects		
Option B:	High amount of risk analysis		
	Table different of the different state of the state of th		
Option C:	Strong approval and documentation control		
Option D:	Additional Functionality can be added at a later date		
, g-31=1 - 1 = 0			
6.	When multiple modules share common data structure and work on different part of it, it is called		
Option A:	Common coupling		
Option B:	Share coupling		
A	Share coupling		
Option C:	Data coupling SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS		
Option D:	Stamp coupling Stamp coupling		
7.			
	What assess the risk and your plans for risk mitigation and revise these when you		
	learn more about the risk?		
Option A:	Pick monitoring and the state of the state o		
	Risk monitoring		
Option B:	Risk planning		
Option C:	Risk analysis		
Option D:	Risk identification		
8.	In which appropriately a construction of the faction of		
	In which environment we can performed the Beta testing?		
7.70			
17/2			
Option A:	User's and developer's end		
Option B:	Developer's end		
Option C:	User's end		
Option D:	System's end		
9.	is not the type of control structure testing		
Option A:	Condition Testing		
	Condition results		
Option B:			
Spirol D.	Data Flow Testing		
Option C:	Loop Testing		
	Loop, came		
Option D:	Orthogonal Array Testing		
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10.	Which of the following is the worst type of module coupling?		
Option A:	Control Coupling		

Option B:	Stamp Coupling	of the second se	
Option C:	External Coupling		
Option D:	Content Coupling		

Question 2	Solve any Two out of Three 10 marks each
Α	Explain the Software Process with detailed umbrella activities.
В	What is the use of use case diagram? Draw use case diagram for hospital management system.
С	Explain The SCM (Software Configuration Management) Process with version control and change control.

Question 3	Solve any Two out of Three 10 marks each
Α	Explain COCOMO Model.
. В	What is user interface design? Explain it with example.
С	Compare Verification and Validation Testing.

Question 4	Solve any Four Questions out of Six 5 marks each		
Α	Discuss incremental model for software development with merits and demerits.		
В	Explain Coupling and Cohesion? Explain the types of coupling with example.		
C	Explain different steps in risk management with suitable diagram		
D S	Explain the System Testing methods.		
E	Explain principles of Agile Methodology.		
F. S. S.	What is Software Re-engineering and Reverse Engineering? Explain.		