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Reg.No



## KPR Institute of Engineering and Technology (Autonomous) Avinashi Road, Arasur, Colmbatore - 641 407

Dept.:

CS(AM)

Ac.Yr.: 2024 - 2025

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Course Code &	Title	: U21ITG01	Software Engineering	
Year	1	: 1	Semester: 04	Date: 19.05.2025 - AN
CIAT .		: 1	Duration: 90 Minutes	Maximum Marks: 60

Q. No		•	X1=10 Marks) Questions	Marks	ВТ	СО
	Which of the following best defines mo	odula	rity in software design?		•	4.114
1	a Combining multiple modules into one program	b	Designing software with minimal documentation	1	U	CO3
*	c Dividing software into separate, manageable parts	d	Reducing software to a single function			CO3
	Which design approach focuses on re	al wo	ord entities and their interaction?	A THE REAL		-
2	a Functional design		Procedural design		U	соз
-414	c Object oriented design	*** ****	Top-down design	1		
	What is the main focus of white box te	stino	?	1 2 2 2	Sheet .	
3.∵	a Checking user interface design		Testing internal code logic		U	
	c Testing overall system performance		Validating database schema			CO4
	System testing is performed to:					
4	a Test individual modules	b	Debug errors in code		u ·	CO4
in the second	c Validate the complete integrated system		Check database connectivity	1		
	Debugging is the process of	1		200	+-	1 2
5	a Writing test cases	b	Creating design documents		U	CO4
w.	c. Identifying and fixing errors	d	Writing specifications	Sa.p		
	Which one is the type of black box tes	ting?	3 openiodions			
6	a Control flow testing		Statement coverage		U	CO4
	c Equivalence partitioning		Loop testing	1		
	What does CASE stand for?	270.00				
7	a Computer algorithm for software Engineering	b	Computer Aided Software Engineering		υ	CO5
	c Control and Analysis of software Elements	d	Core Architecture for software	1 9		
8	Upper CASE tools are primarily in which cycle?	ase of the software development life				
0	a Maintenance	b	Testing	1	U .	CO5
	c Requirements and Design	d	Deployment			
	Component based software engineering	ig pr		S. 19-11.		
. 9	a Writing code from scratch	b	Reusing existing software modules	1		1
AMERICA.	c Ignoring system documentation		Manual testing of every component		U	CO5

* * *	Which of the following is a goal of soft	ware process improvement?			
10	a Increasing design complexity	b Reduce maintainability	1	U	CO <sub>5</sub>
	c Enhance quality and productivity	d Introduce more errors		1	
				A CHA	FX.
	Cantlein D	(40V0-00 M-1/2)		1500	T

Q.No	Section – B (10X2=20 Marks) Answer All Questions	Marks	ВТ	CO
11	Explain the concept of cohesion and coupling in software design.	2	U	CO3
12	Differentiate between object-oriented and function oriented design.	2	U	CO3
13	Describe black box testing with an example.	2	U	CO4
14	What are the steps involved in model-bases testing	2	U	CO4
15	Write short notes on performance testing.	2	U	CO4
16	Illustrate the techniques used for security testing.	2	U,	CO4
17	Show the architecture of a CASE environment.	2	U	CO5
18	Discuss the scope of CASE in software engineering	2	U	CO5
19	Compare Upper CASE and Lower CSE tools.	2	U,	CO5
20	List the advantages of component-based software engineering.	2	U	CO5

Q.No	Section – C (1X6=6 Marks & 2X12=24 Marks) Answer All Questions	Marks	ВТ	со
21 a)	Explain the software design process with suitable models.	6	AP	CO3
T <sub>4</sub>	(Or)			
21 b)	Explain object-oriented analysis and design with an example.	6	AP	CO3
22 a)	Construct various software testing strategies.	12	AP	CO4
	(Or)	47. Th. 12.		
22 b)	Explain the differences and similarities between white and black box testing with examples	12	AP	CO4
23 a)	Discuss the architecture and components of CASE tools.	12	AN	CO5
	(Or)		- The	
23 b)	Explain the significance of software process improvement and discuss any one model I details.	12	AN	CO5