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

Dept.: CSE(AM)

Learn Beyond	AVII	Avinasni Road, Alasti, Gomesters 67, 407		Ac.Yr.: 2024 – 2025		
Course Code & Title	* 1	U21ITG01	Software Engineering			
Year	1 /4/4	11 75	Semester: 04	Date: 24.03.2025 - FN		
CIAT		last in the	Duration: 90 Minutes	Maximum Marks: 60		

Q. No		•	X1=10 Marks) Questions	Marks	вт	cc	
	Which of the following is NOT a characteristic of software?						
1	a Software does not wear out	b	Coffuers is developed not	1	U	СО	
	Software components are assembled like hardware	d	Software is custom-built rather than assembled	*I			
	Which Software process model follows	an	evolutionary approach?				
2	a Waterfall model		Prototyping model	1	U	co	
Approximation in	c Spiral model	d	RAD model		To Section	Carlo Carlo	
	What is the main disadvantage of the	vate	rfall model?	With the control of t			
3	a It is too complex for small projects	þ	It does not support iteration, making requirement changes difficult.	1	U	CO1	
	c It does not require documentation.	d	It is not suitable for structures projects				
	Which of the following is NOT a key pr	incip	ole of agile development	1	U		
4	a Customer collaboration over contract negotiation.	þ	Following a strict predefined plan.			U	CO1
	c Delivering working software frequently	d	Responding to changes over following a plan.				
	Choose option which bets defines a fur	nctio	nal requirement.			Mar.	
5	The system must provide process transactions within 2 seconds.	b	The system should allow users to log in username and password	1	U	CO2	
	The platform should support up to 1 million concurrent users.	d	The system must have 99.99% uptime		1, 8		
	Which of the following is an example of	a n	on-functional requirements.		U		
- 6	The system should provide a search functionality	b	The software should support user authentication	1		CO2	
	The system must ensure data encryption		The software should allow users to download reports				
	What is the main purpose of SRS?	in the		A. (44)	y lasty y		
7	To define the software design and coding standards	D	To specify hardware configurations for software deployment	1	U	CO2	
	c To act a s a contract between the client		The outline the maintenance procedures for		6		

	Which phase of the requirement engineering process involves identifying, analyzing and documenting the user needs?			
8	a Requirement validation b Feasibility study	1	U	CO2
	c Requirement elicitation and d Requirement management			
9	Modularity in software engineering is 5000 divided part from manuscript of	1	U	CO3
	Which type of cohesion is considered the strongest in software design?			
10	a Logical Cohesion b Functional Cohesion	1	U	CO3
	c Sequential Cohesion d Temporal Cohesion	to consistential		神経が変化していま

Q.No	Section – B (10X2=20 Marks)  Answer All Questions	Marks	вт	со
11	What is the significance of software process models in software engineering?	2	U	CO1
12	Define waterfall model.	2	U	CO1
13	List the advantages of spiral model over waterfall model.	2	U	CO1
14	Differentiate iterative enhancement and RAD model.	2	U	CO1
15	Define system requirement and user requirements.	2	U	CO2
16	Define feasibility study.	2	U	CO2
17	What are the key steps involved in requirement engineering process.	2	U	CO2
18	Illustrate the importance of requirement traceability.	2	U	CO2
19	Define modularity.	2	U	CO3
20	List the characteristics of good software design.	2	U	CO3

Q.No	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Section – C (1X6=6 Marks & 2X12=24 Marks)  Answer All Questions	Marks	ВТ	co
21 a)	i	Compare prototyping model and incremental model.	6	Ü	CO1
Market No.	ii	Explain the various phases of spiral model.	6	U	CO1
		(Or)			L -0
21 b)	0.00	plain agile software development approach in detail.	12	U	CO1
22 a)	i	Differentiate functional and non-functional requirements.	6	U	CO2
	ii	List the key steps involved in the requirement engineering process.	6	U	CO2
		(Or)		and Analysis	
22 b)	Ex	plain software requirement specification in detail.	12	U	CO2
23 a)	Dif	ferentiate top-down and bottom-up design approach.	6	U	CO3
		(Or)	Carlo Carlo	b <sub>2</sub>	
23 b)	Exp	plain the concept of coupling and cohesion in software design.	6	Ů	CO3