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## SARDAR PATEL UNIVERSITY

## BCA Semester-5 Examination - 2022 US05CBCA23 || SOFTWARE ENGINEERING

			2, Friday . – 01.00 p.m.		Total: 70	Marks	
Q-1		Selec	t the appropriate option for th	e follow	ing questions:	10	
	1)	The c	oding should follow rules of				
	ŕ	A.	Structured Programming	C.	Integrated Programming		
		В.	UML	D.	OOP		
	2)						
		A.	Spiral		Iterative enhancement		
	2)	В.	Prototype	D.	Waterfall		
	3)	A.	Testing activity is used to		and the needs, goals and constraints.  Design		
		В.	Requirement Specification		Problem Analysis		
	4)		OMO stands for:		1 toolein Analysis		
	."	A.	Construction Cost Model		Constructive Code Model		
		В.	Constructive Cost Model		Calculated Cost Model		
	5)				n module is known as		
	- /	A.	Fan-out	C,	Dependency		
		В.	Fan-in	D.	Module		
	6)	Whic	h is not the level of Cohesion?				
		A.	Logical	C,	Sequential		
	٠	В.	Physical	D.	Coincidental		
	7)	In pr	ogramming style, nesting means				
	·	A.	switch	C.	nested function		
		В.	if-then-else		nested for loop		
	8)	The information hiding principle in modern programming languages by					
		A.	data-hiding		data-abstraction		
		В.	encapsulation	D.			
	9)				rograms, procedures and data.		
		A.	Hardware	<u>C</u> .	Network		
	10)	В.	Software	D,	Engineering		
	10)	characteristic of SRS means the entire requirement denotes or interpretation.					
		A.	Complete	C.	Unambiguous		
		В.	Reliability	D.	Traceable		
		D.	Ronadinty	D.	Taccaoic		
Q-2		Give	short answers of the followin	g questi	ons: ( Attempt TEN out of TWELVE )	20	
	1)	Defi	ne: Software and Software Engir	neering.			
	2)	Expl	ain advantages of spiral model.				
	3)	Write a short note on requirement analysis phase.					
	4)	Write	e a short note on Time sheets.			*	
	5)	"A h	igh quality SRS reduces develor	ment co	ost." Justify.		
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	6)	List components of SRS.	
	7)	Differentiate between Functional and Object-oriented approaches	•
	8)	Explain in brief Design walkthrough.	
	9)	Define: Coupling and Cohesion.	
	10)	Write at least 2 differences between functional and structural testing.	
	11)	Define Error, fault, failure (any two).	
	12)	List any four automated testing tools.	
Q-3	A	Explain characteristics of software process.	04
	В	Explain Waterfall model.	06
		OR	
Q-3	<b>.A</b>	Explain prototype model.	04
١	В	Explain design and coding phases of software development.	06
Q-4	A	What is SRS? Explain needs of SRS.	04
	В	What you mean by SRS? Explain Components of SRS.	06
		OR	
Q-4	<b>A</b>	Explain general characteristics of SRS.	04
	В	Explain validation process of SRS.	06
Q-5	A	Write a short note on Coupling.	04
	B	Discuss the design objectives in detail with proper illustrations.	06
		OR	
Q-5	A	What is module specification?	04
	В	Write a short note on Cohesion.	06
Q-6	A	Explain the concept of information hiding in structured programming.	04
	В	Explain the Top-Down and Bottom-Up approach in coding.	06
		OR	
Q-6		What is testing? Explain levels of testing in detail with diagrams.	10

