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SARDAR PATEL UNIVERSITY

BCA Semester-5 Examination, 2022 [On Demand Exam] US05CBCA23 || SOFTWARE ENGINEERING [NC] 7th July, 2022.



Time: 10.00 a.m. - 12.00 p.m.

Marks: 70

Q-1		Select the appropriate option for the follo	owing questions:	10
	1)	is the second step of design ph	ase.	
		A. Design Analysis	B. Black box	
		C. System Design	D. Detailed Design	
	2)	is the collection of computer	programs, procedures and data.	
		A Hardware	B Software	
		C Network	D Engineering	
·	3)	The components of SRS are: A Function Requirement, Performance re C Effective, Complete	equirement B Coding, Testing D SCM, SQAP	
	4)	activity is used to under	stand the needs, goals and constraints.	
		A Testing	B Design	
		C Requirement Specification	D Problem Analysis	
	5)	Which one is the key term used in design of	f a system?	
		A Module	B Data	
		C Process	D None	
	6)	Which is not the level of Cohesion? A. Logical	B. Physical	
	7)	C. Sequential Which of the following is a tool in design p	D. Coincidental hase?	
•		A. Abstraction	B. Refinement	
		C. Information Hiding	D. All of them	
	8)	In structured design methodology the h	ierarchy of modules is represented by the	
		A. flow chart C. PERT chart	B. Gant chartD. Structured chart	
	9)	characteristic of SRS interpretation.	means the entire requirement denotes one	
		A Complete	B Unambiguous	
		C Reliability	D Traceable	
,s	10)	requires major efforts		
* =		A. Testing	B Maintenance	
		C Coding	D Design	

Q-2		Tick (TRUE or FALSE) and Fill in the blanks.	08			
	1)	Spiral is the simplest and most widely used software development model. [TRUE/FALSE]				
	2)	A high quality SRS reduces the development quality.[TRUE/FALSE]				
	3)	In functional abstraction the module considered as White box for detail design. [TRUE/FALSE]				
	4)	The single-entry, single-exit constructs are also called control constructs. [TRUE/FALSE]				
	5)	model reduces the first two limitations of Waterfall model.				
	6)	SQAP means				
	7)	Number of subordinates associated with given module is known as				
	8)	Comments for a module are often called for the module.				
Q-3		Give short answers of the following questions: (ANY TEN)				
	1)	What is requirement analysis?				
•	2)	What are the limitations of Waterfall model?				
	3)	List characteristics of software process.				
	4)	"A high quality SRS is prerequisite to high quality software." Justify.				
	5)	Explain Partitioning.				
	6)	What do you mean by "Automated Cross Referencing".				
	7)	Define: Coupling and Cohesion.				
	8)	Differentiate between System design and Detailed design				
	9)	Differentiate between Top-down and Bottom-up approaches.				
	10)	Write the goal of coding.				
	11)	What do you mean by information hiding?				
	12)	Write at least 2 differences between fictional and structural testing.				
Q-4		Give Long answers of the following questions: (ANY FOUR)	32			
	1)	Explain Spiral model.				
	2)	Explain Coding and testing phases of software development.				
	3)	What is SRS? Explain general characteristics of SRS.				
	4)	Explain COCOMO Model.				
:	5)	Write a short note on Cohesion.				
	6)	Write a short note on Coupling.				
	7) .	Explain the Top-Down and Bottom-Up approach in testing phase.				
	8)	What is testing? Explain levels of testing using diagram.				