

SARDAR PATEL UNIVERSITY

BCA Semester-5 Examination, 2022 US05CBCA03 || SOFTWARE ENGINEERING [NC] 9th July, 2022.

Time :	:	10.00	a.m. –	12.	00.	p.m.
--------	---	-------	--------	-----	-----	------

Marks: 70

	Select the appropriate option for the	following questions:	10					
1)	Which phase is required to understand the problem?							
	A. System Design	B. Requirement Analysis						
	C. Coding	D. Testing						
2)	is the collection of comp	uter programs, procedures and data.						
3) 4) 5)	A Hardware	B Software						
	C Network	D Engineering						
3)	An SRS provides a reference for A Validation C Quality	B Verification D Xerox copy						
4)	characteristic of S interpretation.	SRS means the entire requirement denotes one						
	A Complete	B Unambiguous						
	C Reliability	D Traceable						
5)	Number of subordinates associated with	h given module is known as						
	A Fan-out	B Dependency						
	C Fan-in	D Module						
6) 7)	Which is not the level of Cohesion?A. LogicalC. SequentialIn programming style nesting means	B. Physical D. Coincidental						
	A. switch	B. if-then-else						
	C. nested function	D. nested for loop						
8)	The information hiding principle in mod	*						
9)	A. data-hiding C. data-abstraction is the second step of desi	B. encapsulation D. inheritance gn phase.						
	A Design Analysis	B System Design						
	C Black box	D Detail Design						
10)	Bang metric is used to quantify the A. Size C. Time	of the project B. Functions D. Needs						

Q-2	2	Tick (TRUE or FALSE) and Fill in the blanks.	08
	1)	The coding should follow rules of OOP .[TRUE/FALSE]	
	2)	A high quality SRS reduces the development cost[TRUE/FALSE]	
	3)	Most common method for designing algorithm is Step wise refinement. [TRUE/FALSE]	
	4)	A failure is produced only when there is a fault in the system. [TRUE/FALSE]	
	5)	model provides better risk management and cost of each phase.	
i	6) 7)	SQAP meansPDL stands for	-
	8)		
	o,	Structured programming is often called programming.	
Q-3		Give short answers of the following questions: (ANY TEN)	20
	1)	What is the meaning of Predictability characteristics of software process?	
	2)	Write a short note on maintenance phase.	
	3)	Define: Software, Software Engineering.	
	4)	What is Structured English?	
	5)	Write a short note on Time sheets.	
	6)	Explain V & V technique for SQAP.	
	7)	List the levels of Cohesion.	
	8)	Define: Coupling and Cohesion	
	9)	Differentiate between System design and Detailed design	
	10)	Write at least 2 differences between fictional and structural testing.	
	11)	What do you mean by information hiding?	
	12)	Which are the control constructs used in structured programming?	
Q-4		Give Long answers of the following questions: (ANY FOUR)	32
	1)	Explain Waterfall model.	32
	2)	Explain Design and testing phases of software development.	
	3)	What is SRS? Explain components of SRS.	
	4)	Explain COCOMO Model.	
	5)	Write a short note on Cohesion.	
	6)	Differentiate between Top-down and Bottom-up approaches.	
	7)	Explain the structured programming used in coding.	
	8)	What is testing? Explain levels of testing using diagram.	