Enrollment No.: _____

Darshan UNIVERSITY
योगः कर्मसु कौशलम्

Darshan Institute of Computer Application
BCA / B.Sc. (IT) | Sem-4 | Winter-2024

Course Code	:	2104CS402	**Date**	:	14-11-2024
Course Name	:	Software Engineering	**Duration**	:	150 Minutes
			Total Marks	:	70

Instructions:
1. Attempt all the questions.
2. Figures to the right indicates maximum marks.
3. Make suitable assumptions wherever necessary.

Q.1	**(A)**	What are the various categories of software?	**4**
	(B)	What is Process? Discuss the process framework activities.	**3**
		OR	
		Define Software and Software Engineering,	
	(C)	Explain Spiral Model in brief with suitable diagram.	**7**
		OR	
		Explain Prototype Model in brief with suitable diagram.	
Q.2	**(A)**	Define Coupling. Explain different type of Coupling.	**4**
	(B)	Explain Quality Function Deployment (QFD).	**3**
		OR	
		Describe Golden Rules of User Interface Design.	
	(C)	Analyze a College Management System and write an explanation of 15 functional requirements of College Management System.	**7**
		OR	
		Analyze a College Management System and Draw Use Case diagram of Library Management System.	
Q.3	**(A)**	Discuss Software Project Management and W5HH Principle in brief.	**4**
	(B)	Explain Different type of Risk.	**3**
		OR	
		Explain the Time-line chart. Draw Time-line chart for the Library Management System.	
	(C)	Write short notes on COCOMO model.	**7**
		OR	
		What is Risk Management? Explain RMMM plan.	

Q.4	**(A)**	Explain Boundary Value Analysis. also Explain merits and demerits of BVA.	**4**
	(B)	List and explain different approach for Code Review.	**3**
		OR	
		Write a short note on Software Documentation.	
	(C)	What are the different testing strategies? Explain any one with suitable example.	**7**
		OR	
		Explain Regression testing and Smoke Testing in detail.	
Q.5	**(A)**	Write a short note on Re-Engineering.	**4**
	(B)	Explain Reverse Engineering.	**3**
		OR	
		Explain Forward Engineering.	
	(C)	Explain Software Configuration Management.	**7**
		OR	
		Explain Types of Software Maintenance.	

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