	Q. Co						Q. Code: 607477		
	Reg. No.					PART- B (5x 14=70Marks)			
	B.E./ B. TECH.DEGREE EXAMINATIONS. MAY 2023						Marks	CO	RBT LEVEI
	Fourth Semester			11. (a)	(i)	Explain about the Risk Management Paradigm.	(7)	1	2
	AD18404 - OBJECT ORIENTED SOFTWARE ENGINEERING					For the following project, calculate SV CV, SPI and CPI at the end of	(7)	1	-
	(Computer Science and Engineering)				(11)	second month.	(7)		U
TIN	(Regulation 2018A)	0			Month 1 2 3 4				
COUR	SE STATEMENT	K 5. 10	RBT			Planned Value ₹ 11,10,000 ₹ 6,00,000 ₹ 25,00,000 ₹ 8,00,000 Farned Value ₹ 10,00,000 ₹ 7,50,000 ₹ 7,50,000			
оитсо СО 1	MES Identify the key activities in managing a software development and manag process.	gement	LEVEL			Actual Cost ₹ 12,50,000 ₹ 5,00,000 (OR)			
CO 2	2 Compare different process models. Concepts of requirements engineering and Modeling			(b)	(i)	Discuss in detail about Scrum Model.	(7)	1	2
using UML concepts.					(ii)	Consider 7 functions with their estimated lines of code given below.	(7)	1	3
CO 3 Apply systematic procedure for conventional and object oriented software design a			3			(8)			
CO 4	Compare and contrast the various testing strategies of conventional and object of applications.	riented	3			FunctionLOCFunc12340Func25380			
CO 5	Learn the concepts of Software Maintenance and Reverse Engineering.					Func3 6800 Func4 3350 Func5 4950			
	PART- A(10x2=20Marks)					Func6 2140			
	(Answer all Questions)	CO	RBT			Func7 8400			
		00	LEVEL			Average Productivity based on historical data is 620 LOC/pm and			
1.	Demonstrate your understanding of umbrella activities of a Software process.	1	2			Labour rate is Rs. 8000 per month. Find the total estimated project			
2.	2. Only 70 percent of the software components scheduled for reuse will, in fact, be 1		3			cost and effort.			
	integrated into the application. The remaining functionality will have to be custom								
	developed. The Risk probability is 80% (likely). Calculate Risk exposure.			12 (a)	(i)	Assess on software requirement specification for banking system	(10)	2	3
3.	Classify the following as functional /non-functional requirements for a banking system	n 2	3	12. (a)	(i)	Describe about the requirement change management	(10)	2	2
	(a) Verifying bank balance (b) Withdrawing money from bank (c) Completion o			(11)	(OP)	(+)	2	2	
	transactions in less than one second. (d) Extending the system by providing more teller	s		(b)	(i)	What is the nurnose of data flow diagrams? Explain by constructing a	(10)	2	3
	for the customers.			(0)	(1)	context flow diagram level 0 DED and Level 1 DED for a library	(10)	4	5
4.	List two advantages of using traceability tables in the requirements management phase.	2	3			context now diagram level-0 DFD and Level-1 DFD for a norary			
5.	Mention the golden rules of User Interface design.	3	1			management system.		•	2
6.	What do you understand by Open-closed principle in Component level design?	3	2		(11)	write short notes on Ethnography.	(4)	2	2
7.	Between "statement coverage and Branch Coverage", Examine which is a stronge criteria? Why?	r 4	4	13. (a)	(i)	Classify and explain the various architectural styles in detail.	(8)	3	4
8.	Differentiate verification and validation. Which type of testing address verification?	4	3		(ii)	Explain the basic design principles of class based components.	(6)	3	3
9.	Define Software Maintenance.	5	2			(OR)			
10.	Write the formula by which the overall benefit of reengineering can be computed.	5	2			<u>s</u>			
	1					2			

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(b)	(i)	Describe transform mapping with an example.	(8)	3	4			
	(ii)	Discuss the design issues in interface design.	(6)	3	3			
14. (a)	(i)	Infer on unit testing. How do you develop test suites?	(7)	4	4			
	(ii)	Assess on Top-down Integration testing and Bottom –up integration	(7)	4	4			
		testing.						
		(OR)						
(b)	Wha	t is White box testing? Explain the different types of White box testing	(14)	4	4			
	strategies. Explain by considering suitable examples							
15. (a)	What is the purpose of software reengineering? Summarize the activities				3			
	invo							
(OR)								
(b)	(i)	Illustrate BPR model with a neat diagram.	(7)	5	3			
	(ii)	Explain Forward Engineering in detail	(7)	5	3			
	(Q.No.10 is compulsory)		Marks	CO	RBT			
	a		(1.0)		LEVEL -			
16.	Com	pare the life cycle models based on their distinguishing factors	(10)	1	5			

strengths and weaknesses.

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