		I	Reg. No.												
]	Question Pape	er Code		12	2769)								
B.E. / B.Tech DEGREE EXAMINATIONS, APRIL / MAY 2024															
Third Semester															
Information Technology															
20ITPC302 - SOFTWARE ENGINEERING															
		Reg	gulations ·	- 20	20										
Du	ration: 3 Hours									M	lax.	Maı	ks:	100	
		PART - A Answe	(10 × 2 = r ALL Qu			ks)					Л	1arks	K – Level	со	
1.	State the drawback of		× ×									2	<i>K1</i>	C01	
2.	List the process maturi	ity levels in SEIs	CMM.									2	<i>K1</i>	C01	
3.	Mention some of the N	lotations for requ	irements sj	peci	ficati	on.						2	K2	<i>CO2</i>	
4.	List out the problems f	faced when user r	equiremen	ts ar	e wri	tten	in n	atura	al la	ngua	ge.	2	K1	<i>CO2</i>	
5.	What are the various ty	ypes of coupling?										2	K2	СО3	
6.	What are the golden ru	lles of interface d	esign?									2	K2	СО3	
7.	Distinguish between al	pha and beta test	ing.									2	K2	<i>CO4</i>	
8.	What is business proce	ess reengineering	?									2	K1	<i>CO4</i>	
9.	9. Compare size oriented and function oriented metrics.							2	K1	CO5					
10.	Define ZIPF's law.											2	K1	CO5	
PART - B (5 × 13 = 65 Marks) Answer ALL Questions															
11.	/ -	il about spiral m						d co	mm	ent v	vhy	13	K2	C01	

this model comes under both evolutionary and RAD models.

OR

- b) i) Explain briefly about various Agile processes and its principles. 7 K2 CO1
 - ii) Explain in detail about the process involved in Extreme programming. 6 K2 CO1
- 12. a) Discuss in detail about the requirements discovery, elicitation and 13 K2 CO2 Interviewing.

OR

- b) Compare and contrast the features of structural analysis and classical analysis 13 K2 CO2 with appropriate use cases.
- 13. a) Explain about software architecture design, with emphasize as fan in, fan- 13 K2 CO3 out, coupling, cohesion and factoring.

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OR									
b)	Discuss the process of translating the analysis model into a software design.	13	K2	СО3					
a) i)	Compare White box and black box testing.	5	K2	<i>CO4</i>					
ii)	Write a procedure for the following: Given three sides of a triangle, return the type of triangle i.e. equilateral, isosceles and scalene triangle. Draw the Control Flow Graph and calculate the minimum number of paths. OR	8	K2	<i>CO4</i>					
b)	State Boundary value analysis. Explain the technique specifying rules and is usage with the help of an example.	13	K2	CO4					
a) i)	Examine the activities associated with project process planning.	7	K2	CO5					
ii)	Write short notes on Earned Value Analysis for project tracking.	6	K2	CO5					
OR									
b) i)	Describe in detail about the following scheduling Timeline charts.	7	K2	CO5					
ii)	Tracking the schedule.	6	K2	<i>CO5</i>					
	PART - C (1 × 15 = 15 Marks)								
a)	Discuss the concept of RMMM with example.	15	K2	<i>CO6</i>					
	OR								
	 a) i) ii) b) a) i) ii) b) i) ii) 	 b) Discuss the process of translating the analysis model into a software design. a) i) Compare White box and black box testing. ii) Write a procedure for the following: Given three sides of a triangle, return the type of triangle i.e. equilateral, isosceles and scalene triangle. Draw the Control Flow Graph and calculate the minimum number of paths. b) State Boundary value analysis. Explain the technique specifying rules and is usage with the help of an example. a) i) Examine the activities associated with project process planning. ii) Write short notes on Earned Value Analysis for project tracking. b) Describe in detail about the following scheduling i) Timeline charts. ii) Tracking the schedule. PART - C (1 × 15 = 15 Marks) a) Discuss the concept of RMMM with example. 	 b) Discuss the process of translating the analysis model into a software design. ¹³ a) i) Compare White box and black box testing. ⁵ ii) Write a procedure for the following: Given three sides of a triangle, return the type of triangle i.e. equilateral, isosceles and scalene triangle. Draw the Control Flow Graph and calculate the minimum number of paths. OR b) State Boundary value analysis. Explain the technique specifying rules and is usage with the help of an example. ¹³ a) i) Examine the activities associated with project process planning. ⁷ ii) Write short notes on Earned Value Analysis for project tracking. ⁶ OR b) Describe in detail about the following scheduling ¹ i) Tracking the schedule. ⁷ a) Discuss the concept of RMMM with example. ¹⁵ 	 b) Discuss the process of translating the analysis model into a software design. 13 K2 a) i) Compare White box and black box testing. ii) Write a procedure for the following: Given three sides of a triangle, return the type of triangle i.e. equilateral, isosceles and scalene triangle. Draw the Control Flow Graph and calculate the minimum number of paths. b) State Boundary value analysis. Explain the technique specifying rules and is usage with the help of an example. a) i) Examine the activities associated with project process planning. ii) Write short notes on Earned Value Analysis for project tracking. b) Describe in detail about the following scheduling i) Timeline charts. ii) Tracking the schedule. a) Discuss the concept of RMMM with example. 15 K2 					

b)	Explain the Importance of CASE TOOLS in detail.	15	K2	<i>CO6</i>
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