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Question Paper Code 12884 B.E. / B.Tech DEGREE EXAMINATIONS, APRIL / MAY 2024													
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			Information Te		logy								
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Du	ration	: 3 Hours	regulations	202	0				Ν	lax.	Maı	·ks:	100
		-	RT - A $(10 \times 2 =$	20 N	larks)							
Answer ALL Questions									Marks ^K – CO Level				
1.	What are the three perspectives to apply UML?									2	K1	CO1	
2.	Define the concept of generalization with an example.									2		<i>CO1</i>	
3.	What are the tasks performed in elaboration?									2		CO2	
4.	1 1									2		CO2	
5.										2		CO4	
6. -	1									2		CO4	
7.	1 5									2		CO5	
_	8. Define test case. Give an example.									2		CO5	
9.										2 2		CO6 CO6	
10.	Defi	ne black box testing.									2	ΛI	000
		РА	RT - B (5 × 13 = Answer ALL Qu)							
11.	a)	Demonstrate the purp scenario and use cases	oose of use case for a library man	e mo	del?		-	the	acto	ors,	13	K2	CO1
	b)	Discuss the various example	OR relationships use	ed in	use	cas	e w	ith	suita	ble	13	K2	CO1
12.	a)	Draw and explain the c	class diagram for OR	banki	ing ap	plic	ation	l.			13	K2	CO2
	b)	Explain about aggrega		tion v	vith e	xamj	ples.				13	K2	CO2
13.	a)	Describe low coupling with suitable examples		indir	ectior	and	l pol	lymo	orphi	sm	13	K2	<i>CO4</i>
	b)	Evaluin in datail abo	OR	· (C-^	F) •••	ttom	a (1)	mm.	0.143.7	nd	13	КÌ	CO4
	b) Explain in detail about Gang of Four (GoF) pattern summary relationships.								ary a	unu		-14	201
K1	– Rem	ember; K2 – Understand; K3	8 – Apply; K4 – Anal I	vze; K.	5 – Eva	aluate	e; K6	– Cr	eate			12	2884

- 14. a) Define and Describe the following:
 - (i) Guideline for developing a user satisfaction test.
 - (ii) White box testing
 - (iii) Black box testing
 - (iv) Debugging

OR

- b) Apply and Evaluate the Unit, Integration, and system testing for ¹³ K3 CO5 currency converter application.
- 15. a) Summarize in detail about Rambaugh's OMT model. 13 K2 CO6

OR

b) What is a test plan? Explain in detail the structure of a test plan. 13 K2 CO6

PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) Depict the business transaction of ATM such as, change PIN, balance ¹⁵ K3 CO3 enquiry, withdrawal, get mini statement and fund transfer using a system sequence diagram.

OR

b) Consider an elevator that has the basic functions such as moving up ¹⁵ K3 CO3 and down open and close doors and pickup passengers. The elevator is supposed to be used in a building having floors numbered from 1 to n. There are call buttons in the elevator corresponding to each floor. For every floor except floors 1 and n, there are two floor call buttons for the passengers to call the elevator for going up and down. There is only one down call button at floor n and one up call button in floor 1. Then the car stops at floor, the doors are opened and the elevator light indicating the current direction the elevator is going is illuminated so that the passengers can get to know the current moving direction of the elevator. When the elevator is moving a music audio is played inside the elevator.

Draw the component and deployment diagram for designing this system.

13 K2 CO5