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		(An Autonomous Institute Affili		<b>o A</b> .	KTU	, Lu	ckn	iow)				
		B.Tech SEM: IV - THEORY EXAMIN		)N	(202	3 - 20	124	`				
		Subject: Software De			•		<i>,</i>	,				
Tin	ne: 3 I	Hours	- <b>9</b> ''	, 1011	01,1	_		]	Max	. M	arks	: 100
Gene	ral In	structions:										
		fy that you have received the question pap										
		estion paper comprises of three Sections -	A, B,	& C	<b>.</b> It c	onsis	sts c	of Mi	ıltipl	le C	hoice	2
		(MCQ's) & Subjective type questions.	n rial	1	and i	sida d	of a	ach c	211001	tion		
		m marks for each question are indicated o e your answers with neat sketches wherev	_			siue (	n et	acn q	uesi	wi.		
		suitable data if necessary.	er nee	CBBC	y.							
		ply, write the answers in sequential order.										
<b>6.</b> No	sheet	t should be left blank. Any written materia	l after	a b	lank	shee	t wi	ll no	t be			
evalu	ated/c	checked.										
SEC'	<u> FION</u>	<u>-A</u>										20
1. Att	empt a	all parts:-										
1-a.	W	Which of the following is a type of softwa	re. (Co	<b>O1</b> )								1
	(a)	System Software	(	7								
	(b)	All of the above	1									
	(c)	Application Software										
	(d)	Embedded Software										
1-b.	W	Waterfall model is not suitable for.(CO1)										1
	(a)	small projects										
	(b)	accommodating change										
	(c)	complex projects										
	(d)	none of the above										
1-c.	` ′	Jse cases are help to. (CO2)										1
	(a)	Identify business process										
	(b)	Gather requirement										
	(c)	Describe Workflow										
	(d)	Identify System Goals										
1-d.	` ′	Which of following categories of diagram	model	l nre	sent	in IT	MI	(CC	)2)			1
ı u.		non-behavioral	mouc	Pic	BCIII	111 U.	. 7 I L	. (00	<i>)</i>			1
	(a)											
	(b)	Behavioral structural										
	(c)	SITUCTUTAL										

	(d)	Both B and C	
1-e.	A	Class consists of which of these abstractions? (CO3)	1
	(a)	Attributes	
	(b)	Operations	
	(c)	All of the mentioned	
	(d)	Set of the objects	
1-f.	O	bjects can be considered as (CO3)	1
	(a)	Use Case	
	(b)	Real world entities who interact with class methods and attributes	
	(c)	objects are those who do not have access to operate class methods	
	(d)	Relationship cannot be created between objects	
1-g.	A	n attribute is a data item held by which of the following. (CO4)	1
	(a)	Class	
	(b)	Object	
	(c)	All of the mentioned	
	(d)	None of the mentioned	
1-h.	W	That is multiplicity for an association.(CO4)	1
	(a) that	The multiplicity at the target class end of an association is the number of instances can be associated with a single instance of source class	
	(b) that	The multiplicity at the target class end of an association is the number of instances can be associated with a number instance of source class	
	(c)	All of the mentioned	
	(d)	None	
1-i.		Tho consider diagrams as a type of Class diagram, component diagram, object agram, and deployment diagram.(CO5)	1
	(a)	structural	
	(b)	behavioral	
	(c)	non- behavioral	
	(d)	non structural	
1-j.		ctivity diagram, collaboration diagram, and sequence diagram are considered as hich model diagram. (CO5)	1
	(a)	non-behavioral	
	(b)	non-structural	
	(c)	structural	
	(d)	behavioral	
2. Atte	empt a	all parts:-	
2.a.	D	efine Entity-Relationship Diagrams with types of attribute. (CO1)	2
2.b.	D	iscuss any two characteristics of Unified Modelling Language.(CO2)	2

2.c.	Discuss any two requirement elicitation techniques.(CO3)	2
2.d.	Describe the basic notations of Use case and Class diagram (CO4)	2
2.e.	Define any two characteristics of the event? [CO5]	2
<b>SECTI</b>	ON-B	30
3. Ansv	wer any <u>five</u> of the following:-	
3-a.	Explain the terms :1)Functionality 2) Reliability 3)Usability 4)Portability 5)Maintainability? [CO1]	6
3-b.	Explain the Software Development Lifecycle Model.(CO1)	6
3-c.	Describe the process of Object oriented software development (CO2)	6
3-d.	Describe the following Diagrams: 1)Activity diagram 2)Object diagrams 3)Collaboration diagram(CO2)	6
3.e.	What do you understand by the Requirement engineering process. (CO3)	6
3.f.	Explain the concept of Aggregation and Direct Association with example. (CO4)	6
3.g.	What do you understand by activity diagram .Describe various notations of activity diagram. (CO5)	6
<b>SECTI</b>	ON-C	50
4. Ansv	wer any <u>one</u> of the following:-	
4-a.	Differentiate between Object model and Functional model. Explain the advantages of OOAD ? [CO1]	10
4-b.	Discuss the phases of Waterfall model with its advantages and disadvantages.(CO1)	10
5. Ansv	wer any one of the following:-	
5-a.	Describe the following terms:1.Collaboaration diagram 2.State chart diagrams 3.Dependency 4.Association 5 Realization (CO2)	10
5-b.	Differentiate between Structural and Behavioral diagram. Discuss about the UML diagrams class and Interaction Diagrams (CO2)	10
6. Ansv	wer any one of the following:-	
6-a.	What do you understand by the Requirement engineering .Explain the requirement analysis phases in detail. (CO3)	10
6-b.	What do you understand by the Use Case Diagrams and Design an Use Case Diagram for Stock maintenance system. (CO3)	10
7. Ansv	wer any <u>one</u> of the following:-	
7-a.	Write Short note on: 1)many to zero 2)Zero to many 3)one to many 4) Many to many 5) Many to one with examples (CO4)	10
7-b.	Differentiate between Use Case diagram and Class diagram. What are common connection relation in both diagram? (CO4)	10
8. Ansv	wer any one of the following:-	
8-a.	Explain four types of deployment models with suitable example. (CO5)	10

