17630

1	1920)									
3	Ho	ours /	100	Marks	Seat	No.					
	Instru	ections –	(1)	All Questions	are Comp	oulsory.					
			(2)	Answer each	next main	Questi	on on	a nev	w pag	ge.	
			(3)	Illustrate your necessary.	answers	with ne	at sket	ches	where	ever	
			(4)	Figures to the	right ind	licate fu	ıll mar	KS.			
			(5)	Assume suitab	ole data, i	f necess	sary.				
			(6)] (6)	Mobile Phone Communicatio Examination H	, Pager ar n devices Iall.	nd any are not	other I t permi	Electr	onic e in		
										Mai	rks
1.		Attempt	any	FIVE of the	following	•					20
	a)	Explain	differe	ent relationship	o in UML	<i>.</i>					
	b)	Differen	tiate b	etween aggreg	ation and	associa	ation.				
	c)	Draw a	class	diagram for r	ailway res	servation	n syster	n.			
	d)	Explain	the no	otations used i	n use cas	se diagr	am.				
	e)	Describe	forki	ng and joining	g in activi	ity diag	ram.				
	f)	Describe	any f	four notations	used for	deploy	ment d	iagrar	n.		
2.		Attempt	any	FOUR of the	followin	g:					16
	a)	What is themes.	object	t orientation?	Explain a	ny two	object	orie	nted		

- b) Explain meta data with example.
- c) Draw a sequence diagram for printing a file.

Marks

16

- d) Explain <<include>> and <<extend>> relationships in use case diagram.
- e) Explain the swim lane in activity diagram with one example.
- f) Define node. Draw notation. Explain use of deployment diagram.

3. Attempt any <u>TWO</u> of the following:

- a) State and explain notations used to draw class diagram. Draw a neat class diagram for hospital management system.
- b) State any two types of actors used in use case diagram. Draw a neat use case diagram for printing result from MSBTE website.
- c) Explain decision making and branching in activity diagram. Draw activity diagram for making photo copies on xerox machine.

4. Attempt any FOUR of the following:

16

- a) List and classify various UML diagrams.
- b) Explain Rambaugh OMT in detail.
- c) Explain propagation of operation with suitable example.
- d) How to create and destroy message with examples.
- e) Draw the state chart diagram for ATM.
- f) Explain concept of interface and port.

5. Attempt any FOUR of the following:

- 16
- a) Describe rational unified software development life cycle with its all phases.
- b) Explain multiplicity with all its notations.
- c) Draw sequence diagram for student online registration system.
- d) Draw activity diagram for online purchase order.
- e) Differentiate between action node and activity node in activity diagram.
- f) Draw component diagram for Library Management System.

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6.		Attempt any FOUR of the following:	16
	a)	Explain the principles of modelling.	
	b)	Explain generalization and inheritance.	

- c) Explain the following terms
 - (i) Attribute
 - (ii) Link attribute
 - (iii) Ordering
 - (iv) Qualified association
- d) Explain parallel and loop structured control in sequence diagram.
- e) Draw the use case diagram for online airline reservation system.
- f) Explain the notations used in state diagram.