CBCS SCHEME

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Fifth Semester B.E. Degree Examination, Aug./Sept. 2020 **Object Oriented Modeling and Design**

	4 1			Object Oriented Modeling and Design	
		Tim	ie: 3	hrs. Max. M	arks: 100
5"		No	ote:	Answer any FIVE full questions, choosing ONE full question from each module	2.
				Module-1	
e.	1.01	1	a	What is Object Orientation? Explain its aspects with example.	(08 Marks)
acti		7.	b.	Explain Object Oriented themes.	(06 Marks)
alpr		355	c.	Briefly explain three models used in OO modeling and Design.	(06 Marks)
s m			•	OR	,
gg		2	a.	Define the following terms with example:	
eate			a.	i) Link and association ii) Multiplicity iii) Visibility	(06 Marks)
e tr			b.	Explain Modeling concept. Write the class model of windowing system.	(10 Marks)
			c.	Write a note on Reification.	(04 Marks)
, v		ř.			(0.1.1.1.1.1.)
= 5(100	2 76		Module-2	(05 Mandas)
**		3	a.	What is Use Case diagram? Mention its uses.	(05 Marks)
,42			b.	Draw and explain the use case diagram of order entry subsystem for RMD and a	
9 L		7	s 15	involving the customer actor.	(07 Marks)
itte			c.	Explain intermediate use case description with example	(08 Marks)
WI		•		OR OR	1
ons		4	a.	What is the use of system sequence diagram? Explain SSD notations with r	
luat	100	4	8 0	system sequence diagram.	(10 Marks)
3			b.	Explain all the necessary steps for developing Orderitem state chart.	(10 Marks)
0/ p		5 × .		Module-3	
ran	3.3	-5	a.	Explain the Software development stages in detail.	(10 Marks)
ato	:		b.	Describe the steps in constructing a domain state model.	(10 Marks)
valu		. 50	, i		
toe		6	. 0	Explain Waterfall development and iterative development life cycles.	(06 Marks)
eal		6	a. b.	Describe different ways of finding new system concept.	(06 Marks)
app	- 5	1.	c.	Explain an overview of domain analysis.	(08 Marks)
of identification, appeal to evaluator and /or equations written eg. $42+8=50$, will be treated as malpractic	ā		С.		(
cati		_		Module-4	(06 Marks)
ntif	• .	7	a.	Explain the overview of object oriented programs with neat diagram.	(08 Marks)
ide			ь.	Describe the object oriented design models.	
g of	1		c.	Explain the responsibilities of class objects with Look up item availability use car	(06 Marks)
revealing		14.		OR	(001/14/11/2)
eve	1	0	_	Illustrate four types of standard design classes.	(06 Marks)
- X		8		Explain how to update the design class diagram.	(06 Marks)
A.			b.	Discus the implementation issues for three-layer design.	(08 Marks)
, ~		,	c.		(00 marks)
101		1.		Module-5	(00.3/6 1.)
	6	9	a.	What is design pattern? Explain four essential elements of design pattern.	(08 Marks)
0.10	1,19		b.	Explain how to select a design patter.	(06 Marks)
dim			c.	Briefly explain how to use a design pattern.	(06 Marks)
		2		OR	
	9	10	a.	List any five design problems and explain how design patterns solve them.	(10 Marks)
	- 2		b.	Explain the consequences of Singleton and adaptor patterns.	(10 Marks)
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