No. of Printed Pages : 2

BICSE-002

B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

00147

Term-End Examination December, 2014

## BICSE-002 : OBJECT ORIENTED DESIGN AND PROGRAMMING

Time	:	$\mathcal{J}$	hours
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Maximum Marks: 70

Note: Answer any seven questions. All questions carry equal marks. Assume suitable missing data, if any.

1.	( <b>a</b> )	What is object-oriented programming ? What are the essential features of object-oriented programming ?	
	(b)	Define Aggregation and Generalization.	5
2.	(a)	What is the relation between Link and Association ? Explain with suitable example.	
	(b)	Define the following terms : Object, Class Superclass and Subclass.	, 5
3.	the	t is Object Modeling Technique ? What are various models being used by OMT to ibe a system ?	
4.	( <b>a</b> )	Describe processes and their functions in functional modeling.	5
	(b)	Describe how are DFD useful in functional modeling.	l 5
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5.	(a)	Define the term System Architecture. What are the essential aspects of system architecture?	5			
	(b)	Draw an object model to describe any undirected graph.	5			
6.		t steps followed while designing a System gn ? Explain each of them.	10			
7.	Expla	plain the following with suitable examples : 10				
	(a)	Reusability				
	(b)	Extensibility				
	( <b>c</b> )	Robustness				
8.	Defin	efine the following terms : 10				
	(a)	State				
	(b)	Behaviour				
	( <b>c</b> )	Identity				
	( <b>d</b> )	Pseudocode				
	(e)	Metadata				
9.	(a)	Explain the Object Model and the Functional Model.	5			
	(b)	Explain Object Meta Model with suitable example.	5			
10.	Write	e short notes on any <i>two</i> of the				
	following: $2 \times 5$					
	(a)	Package				
	(b)	Dynamic Model				
	( <b>c</b> )	Database Management Paradigm				

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