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BICSE-002

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

00615 Term-End Examination June, 2014

BICSE-002 : OBJECT ORIENTED DESIGN AND PROGRAMMING

Tir	ne : 3	hours Maximum Marks : 70
No		Answer any seven questions. All questions carry qual marks.
1.	(a)	What is object-oriented programming model? Why do we opt for the object oriented approach?
	(b)	What are the features of object orientation?
2 .	Defi	ne the following: $5 \times 2 = 10$
	(i)	Link and Association
	(ii)	Generalization and Aggregation
3.	(a)	What is the function of a State diagram? How are state diagrams represented in different models?
	(b)	What are the steps performed in constructing a dynamic model?

4.	Func	ribe processes and their functions in tional Modelling. What is the function of flow in handling process?	10
5.	(a)	Write the policies for Detailed Design Dealing with temporal data.	5
	(b)	Explain ONN constructs.	5
6.	the e	ne the term System Architecture. What are essential aspects of system architecture? ain with example.	10
7.	(a)	What are the steps to be followed during object design phase?	5
	(b)	Define the term DBMS. Explain various approaches of designing the database.	5
8.	(a)	Differentiate between: (i) Weak versus Strong Typing. (ii) Physical versus Logical Models.	5
	(b)	Write the characteristics of a Functional Model.	5
9.	(a)	Define Object Model Transformations. Explain how object models are elaborating.	5
	(b)	Draw the object model for online gaming system.	5
10.	Write short notes on any two of the following: $5 \times 2 = 10$		
	(a)	Multiple Inheritance	
	(b)	Metadata	
	(c)	Packages	