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BICSE-002

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

Term-End Examination

December, 2016

BICSE-002 : OBJECT ORIENTED DESIGN AND PROGRAMMING

Time : 3 hours

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Maximum Marks : 70

- **Note :** Answer any **seven** questions. All questions carry equal marks.
- (a) What is the need of good design of a system ? What are the quality parameters affected positively by a good design ?
 - (b) What is the meaning of an object ? How do objects interact with each other ? Explain with the help of an example.
- (a) What is a class ? What are the different types of classes ? Explain with the help of an example on the basis of generalizations.
 - (b) What is a package ? Define packages with the help of an example.

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3.	diffe	t is functional modelling ? Explain the rent steps performed while constructing a tional model.	10
4.	(a)	What is metadata ? Describe different applications of metadata.	5
	(b)	What is the use of object identity ? Describe the different types of object identities.	5
5.	(a)	What is the meaning of Object Navigation Notations (ONN)? Explain.	5
	(b)	Draw a class diagram for a Student Attendance Management System.	5
6.	(a)	What is OODBMS ? Explain its features in brief.	7
	(b)	Describe in brief the different policies for detailed design dealing with temporal data.	3
7.		t is a dynamic model ? Draw a state chart ram for an ATM system.	10
8.	(a)	What is the meaning of temporal data ? How is it managed in a system ?	5
	(b)	What is pseudocode ? How can pseudocode be used to represent the object model of a system ? Describe briefly.	5
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9. Define the following terms in brief :

- (a) State
- (b) Aggregation
- (c) Inheritance
- (d) Behaviour
- (e) Persistence

10. Write short notes on the following :

 $4 \times 2\frac{1}{2} = 10$

- (a) Link and Association
- (b) Quality of Design
- (c) Data Dictionary
- (d) Metadata and Metamodels

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5×2=10