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BICSE-002

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

Term-End Examination

December, 2015

BICSE-002 : OBJECT ORIENTED DESIGN AND PROGRAMMING

Time : 3 hours

Maximum Marks : 70

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

•	(a)	What are the important features of a good design ? List any five of them.	5
	(b)	"A good design reduces the maintenance cost of the software." Discuss and justify your answer.	5
2.	(a)	Differentiate between data flow oriented design and object-oriented design, with suitable examples.	5
	(b)	What do you understand by the term Metadata ? Why is it considered to be a useful concept ?	5
3.	(a)	What are the functions of a state diagram ? How are the state diagrams represented in various models ?	5
	(b)	Briefly explain the three essential characteristics of an object.	5
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- **4.** What do you understand by architectural modelling ? Explain its various concepts with the help of suitable examples.
- 5. (a) How do you implement constraints ? Explain.
 - (b) Write the policies for detailed design dealing with temporal data.
- 6. (a) Define the term DBMS. Differentiate between DBMS and RDBMS.
 - (b) Explain various approaches of designing a database.
- 7. (a) Write the procedure to evaluate the quality of a design model.
 - (b) What is a dynamic model ? List its advantages and disadvantages.
- 8. (a) What do you mean by object model transformation ? Explain with the help of a suitable example.
 - (b) What is Pseudocode ? Describe it with Object Navigation Notations.
- **9.** Draw and explain the OMT object model for booking a rail ticket.
- **10.** Write short notes on any *two* of the following: $2 \times 5 = 1$
 - (a) Packages
 - (b) ONN Construct
 - (c) Generalization and Aggregation

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