

**B.Tech. – VIEP – COMPUTER SCIENCE AND  
ENGINEERING (BTCSVI)**

00831

**Term-End Examination**

**December, 2017**

**BICSE-002 : OBJECT ORIENTED DESIGN AND  
PROGRAMMING**

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Answer any seven questions. All questions carry equal marks.*

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1. What is Object Modeling Technique ? Explain briefly how a system is described using OMT. 10
  
2. (a) What is Dynamic Modeling ? Draw a state chart diagram for an online movie ticket booking system. 5  
(b) What is an Object ? Explain what is the meaning of State of an Object with an example. 5
  
3. (a) What is Aggregation ? Explain with the help of an example. 5  
(b) What is the concept of Reusability ? Explain its advantages. 5

4. (a) What is OODBMS ? Explain its features briefly. 5
- (b) What is Metadata ? Explain the needs of metadata. 5
5. (a) What is Data Dictionary ? Explain its components with the help of an example. 5
- (b) What is Association ? Explain with the help of an example. 5
6. Explain functional modeling and its advantages with the help of an example. 10
7. (a) Explain ONN constructs. 5
- (b) What is the need of system design ? Explain with the help of an example. 5
8. (a) What is Object Identity ? Explain with an example, where object identity is used. 5
- (b) Explain how a constraint is implemented. 5
9. Define the following terms with the help of examples :  $4 \times 2 \frac{1}{2} = 10$
- (a) Cardinality
- (b) Visibility
- (c) Class
- (d) Robustness

10. Write short notes on any *two* of the following :  $2 \times 5 = 10$

- (a) Package
  - (b) Quality of a Design Model
  - (c) RDBMS
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