

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

**Term-End Examination**

00674

**June, 2018**

**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 oriented modeling ? Explain its advantages. 10
  
2. (a) What is a state diagram ? Draw state diagram for getting a book issued from a library. 5
- (b) Draw the object model for online bus ticket booking system. 5
  
3. (a) What is a class ? Explain how classes are identified in a system with the help of an example. 5
- (b) What is temporal data ? Explain with an example how temporal data are managed. 5

4. What is a dynamic model ? Draw a state chart diagram for online registration in a “Object Oriented Programing Workshop” being organized at your study centre. 10
5. (a) Explain the relation between *link* and *association*, with the help of an example. 5
- (b) Briefly explain object model. 5
6. What is functional modeling ? Draw a DFD for online banking system. 10
7. (a) Explain advantages of good design in software development. 5
- (b) What is concurrency ? Explain how concurrency is controlled. 5
8. (a) What is DBMS ? Explain the advantages of ODBMS. 5
- (b) What is generalization ? Explain with the help of an example. 5
9. Define the following terms in brief : 5×2=10
- (a) Object Identity
- (b) Persistence
- (c) Data Dictionary
- (d) State
- (e) Cardinality

**10. Write short notes on the following :**

***2×5=10***

**(a) Inheritance**

**(b) Dynamic Model**

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