

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

Term-End Examination

00724

June, 2017

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

Time : 3 hours

Maximum Marks : 70

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

1. What is object oriented modeling ? Explain its advantages. Briefly explain the features of object orientation. 10
2. (a) What is a class ? How are objects created from a class ? 5
(b) What is dynamic modeling ? Draw the sequence diagram for an ATM system. 5
3. Explain the following with the help of examples : 2×5=10
 - (a) Link and Association
 - (b) Generalization and Specialization

4. (a) What is a functional model ? How is it different from a dynamic model ? 5
(b) Explain the steps to be followed during object design phase. 5
5. (a) What is OODBMS ? How is it different from RDBMS ? 5
(b) What is inheritance ? Explain its advantages with the help of an example. 5
6. (a) Explain the various approaches of designing a database. 5
(b) What is temporal data ? Explain how it is managed in a database. 5
7. Draw and explain the OMT object model for an online movie ticket booking system. 10
8. (a) Draw an object model for an online examination system. 6
(b) Explain the meaning of object identity in the context of DBMS with the help of an example. 4
9. Define the following terms in brief : $5 \times 2 = 10$
(a) Event
(b) Pseudocode
(c) Primary key
(d) Method
(e) Superclass

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

- (a) Packages
 - (b) System Architecture
 - (c) Database Management Paradigm
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