

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

Term-End Examination

June, 2019

00565

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

Time : 3 hours

Maximum Marks : 70

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

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1. (a) What is a class ? Explain the concept of generalization in object oriented design with the help of an example. 6
 - (b) Explain the use of temporal data with the help of an example. 4
 2. (a) What is link ? Explain the use of link with the help of an object diagram. 5
 - (b) Explain Inheritance and its advantages with the help of an example. 5
 3. Draw activity diagram and sequence diagram for library management system. 10

4. (a) What is dynamic model ? Explain its advantages. 5
- (b) Explain the needs of evaluating quality of a design model. 5
5. (a) What is DBMS ? Explain the term Keys and Constraints in context of DBMS with the help of examples. 6
- (b) Explain the uses of Data Dictionary. 4
6. Identify the classes and draw class diagram for Online examination system. 10
7. (a) Draw state diagram for ATM cash withdrawal system. 5
- (b) Briefly explain policies used for detailed design. 5
8. What is DFD ? List the components of DFD. Draw First Level DFD for Online examination system. 10
9. Define the following terms with the help of examples : $4 \times 2 \frac{1}{2} = 10$
- (a) Aggregation
- (b) Metadata
- (c) OODBMS
- (d) Object Navigation Notation

10. Write short notes on any *two* of the following :

2×5=10

- (a) Different Types of Association**
 - (b) Persistent Objects**
 - (c) ONN Constructs**
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