

**B.TECH. COMPUTER SCIENCE AND
ENGINEERING (BTCSVI)**

Term-End Examination

December, 2013

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

Time : 3 hours

Maximum Marks : 70

Note : Attempt any seven questions. Assume suitable missing data, if any. Each question carries equal marks.

1. (a) Define the following terms : Object, Classes. 5
How classes and objects are closely linked ?
- (b) Differentiate between OOA and OOD. 5
2. (a) Describe the term Metadata. Why is it 5
considered to be useful concept ?
- (b) Compare and contrast conventional 5
methodology and object oriented
methodology.
3. (a) What do you mean by multiple 5
inheritance ? Explain it with an example.
- (b) "Data Dictionary is a part of Metadata". 5
Justify the statement.
4. What do you understand by architectural 10
modeling ? Explain its various concepts with the
help of examples.

5. (a) Explain the relationship between object model and dynamic models. 5
(b) Describe how DFD are useful in function modelling ? 5
6. (a) What are the steps of designing a system Design ? 5
(b) List five object oriented programming languages with their specific features. 5
7. Define the term DBMS. Differentiate between DBMS and RDBMS. Explain various approaches of designing the databases. 10
8. (a) What do you mean by object model transformations ? Explain how object model are elaborating. 5
(b) Write the procedure to evaluate the quality of a Design Model. 5
9. Draw and explain OMT object model for course registration system of a university. 10
10. Write short notes on **any two** of the following : 5x2=10
(a) Packages
(b) Generalization and Aggregation
(c) ONN Constructs
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