

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

Term-End Examination

June, 2015

00545

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

Time : 3 hours

Maximum Marks : 70

*Note : Attempt any **seven** questions. Assume suitable
missing data, if any.*

1. What do you understand by object oriented technology ? Discuss the pros and cons of object oriented technology with suitable example. 10

2. (a) What do you mean by generalization ? Explain how it is related with inheritance. 5
(b) Define “operation” related to object and also explain its features. 5

3. (a) Describe the term metadata. Explain why metadata is considered to be a useful concept. 5
(b) What is the use of notations in software design ? 5

4. Describe functional modelling. Explain the different steps to be performed in constructing a functional model. 10

5. (a) Compare and contrast OOA and OOD. 5
(b) Draw OMT object model for a course registration system of a university. 5
6. (a) Define object identity. What is the use of object ID's? 5
24200 (b) Explain object meta model with suitable example. 5
7. (a) Write the policies for detailed design dealing with temporal data. 5
(b) How do you implement constraints? Explain. 5
8. Define the following terms with examples : $5 \times 2 = 10$
(a) State
(b) Link
(c) Event
(d) Visibility
(e) Extensibility
9. (a) Explain ONN constructs. 5
(b) Write the merits and demerits of Dynamic Model. 5
10. Write short notes on any *two* of the following : $2 \times 5 = 10$
(a) Quality of a Design Model
(b) Object Model Transformations
(c) Packages