

01035

**B.Tech. IN COMPUTER SCIENCE AND
ENGINEERING (BTCSEVI)**

Term-End Examination

June, 2012

BICS-003 : OBJECT ORIENTED PROGRAMMING

Time : 3 hours

Maximum Marks : 70

Note : *Attempt any seven questions.*

1. (a) What is object oriented programming ? 6
How it is different from the procedure oriented programming ?
- (b) What is operator overloading ? Explain in 4
detail.

2. Explain the following terms with example : 10
 - (a) Encapsulation
 - (b) Information hiding
 - (c) Polymorphism
 - (d) Constructors

3. (a) What do you understand by object identity ? 5
Explain with example.
- (b) What is object oriented modelling ? What is 5
it's importance ?

4. (a) What is a virtual function ? What is the use of virtual function ? 5
- (b) Explain different types of Inheritance. 5
5. (a) Write a program to define a constructor and initialize the class data member variables with constants. 5
- (b) Write a program to overload + binary operator. 5
6. Explain the evaluation of C++. Also write the advantage of object oriented programming languages. 10
7. (a) Write the statement for concatenation of two string using cout. write () statement. 5
- (b) What is dynamic initialization ? Is it possible in C ? 5
8. (a) How are friend functions and static functions invoked ? Explain with example. 5
- (b) What are the concepts of data hiding ? What are the advantages of it's application ? 5
9. (a) What do you mean by inheritance ? What is the difference between private and protected inheritance ? 5
- (b) Write a program to declare pointer to member variable and display the content of the variable. 5

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

(a) Virtual function 2x5=10

(b) Binding

(c) Destructors
