

00321

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

Term-End Examination

December, 2012

BICS-003 : OBJECT ORIENTED PROGRAMMING

Time : 3 hours

Maximum Marks : 70

Note : Attempt any seven questions.

1. What is object oriented programming ? Compare and contrast OOP languages with procedure oriented languages. 3+7

2. (a) What is the role of iostream.h and math.h header files ? Explain in detail. 5
(b) What is dynamic initialization ? Is it possible in C ? 5

3. (a) Write a program to check whether the entered number is palindrome or not. 5
(b) What are inline functions ? Discuss it's advantages and disadvantages. 5

4. What is function overloading ? What are the rules for defining overloaded functions ? Explain with examples. 3+4+3=10
5. (a) Write a program to exchange values between two classes. (use Friend Functions) 5
 (b) What is the concept of data hiding ? What are advantages of its applications ? 5
6. Write a program to declare three classes S_1, S_2, S_3 . The classes have a private data member variable of character data type. Read strings for the classes of S_1 and S_2 . Concatenate the strings read and assign it to the data member variables of class S_3 . 10
7. (a) What is the difference between calling methods for constructor and destructor ? 5
 (b) What is the operator overloading ? Describe rules for operator overloading. 5
8. (a) What do you mean by inheritance ? Describe various types of inheritance with examples. 5
 (b) What are conditional constructors and destructors ? Explain with examples. 5
9. (a) What is object oriented modelling ? What is it's importance ? 5
 (b) What are the r value and l value in an expression ? Explain with examples. 5

10. Write short notes on *any two* of the following : $2 \times 5 = 10$
- (a) Virtual function
 - (b) Polymorphism
 - (c) Exception Handling.
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