

**III Semester B.C.A. Degree Examination, October/November 2011
(Old Scheme)**

3 BCA-2 : OBJECT ORIENTED PROGRAMMING USING C++

Time : 3 Hours

Max. Marks : 80

Instruction : Answer all Parts.

PART – A

Answer any 8 questions :

(8×3=24)

1. List out all the data types in C++.
2. Explain the syntax for defining pointer variables.
3. Define class. Explain with an example.
4. What is looping ? Explain any one looping construct.
5. Mention any 3 features of OOPs.
6. Mention three access specifiers in C++.
7. What do you mean by inline function ?
8. What is virtual function ?
9. What is constructor ? Explain with an example.
10. List out the operators which cannot be overloaded by friend function.

PART – B

Answer any 4 questions :

(4×14=56)

11. a) Explain operator overloading concept. What are the rules to be followed while overloading operators ? 5
- b) Explain different types of inheritance with example. 5
- c) Explain name hiding in C++. 4



12. a) Differentiate between structure and class in C++. 4
b) Explain reference arguments in C++ with an example. 5
c) Explain user defined function in C++. 5
13. a) What are static members ? Explain with an example. 6
b) Write a C++ program to implement operations on stack. 8
14. a) What is friend function ? Explain with an example. 7
b) Write a C++ program to over ride a function to find the factorial of a given number. 7
15. a) What are Manipulators ? Discuss various pre defined manipulators supported by C++ streams. 7
b) Write a C++ program to create a text file and count the number of words in it. 7
16. a) Write a C++ program to concatenate two strings using binary operator '+'. 7
b) What do you mean by word 'Inheritance' ? Explain any one type of Inheritance with an example. 7
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