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Total No. of Questions : 07]

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Paper ID [BC304]

(Please fill this Paper ID in OMR Sheet)

BCA (Sem. - 3rd)   MAY-2008

OBJECT ORIENTED PROGRAMMING USING C++ (BC - 304)

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Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

1) Section - A is **Compulsory.**

2) Attempt any **Four** questions from Section - B.

Section - A

Q1)   (10 x 2 = 20)

a)   What do you mean by header file?

b)   What are function prototypes?

c)   What is the significance of access specifiers in a class?

d)   What are some advantages/disadvantages of using friend functions?

e)   How many ways are there to initialize an int with a constant?

f)   Write a declarator for a pure virtual function called purevar() that returns type void and takes one argument of type int.

g)   What do you mean by pure virtual function?

h)   Can I overload the destructor for my class? Support your answer.

i)   What do you mean by new and delete operator?

j)   Differentiate between macros and functions?

(4 x 10 = 40)

Q2) What are the main characteristics of an object oriented programming? Compare them with the structured programming?

Q3) What is a class? Give an advantage of having classes in a program. How does it accomplish data hiding?

Q4) What do you mean by recursion? Write a program in C++ to find the GCD of two numbers using recursion.

Q5) What is multiple inheritance? How it is realized in C++? Give suitable examples.

Q6) What purpose is served by constructors and destructors? Can we overload them?

Q7) Write a C++ program that prompts the user to enter the name of two files, and copies the contents of the first file into the second file. Your program should be able to handle any kind of error that occurs during the course of program execution.