Paper ID [A0214]

(Please fill this Paper ID in OMR Sheet)

BCA (304) (S05) (O) (LE) (Sem. - 3rd)

OBJECT ORIENTED PROGRAMMING USING C++

Time : 03 Hours

Maximum Marks : 75

Instruction to Candidates:

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

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

Section - A

Q1)

(15 × 2 = 30)

a) What do you mean by OOP?

b) Explain *for* loop with example.

c) What is the purpose of header files in C++?

d) What are the primary data types of C++?

e) What is a function prototype?

f) What are the steps involved in using a data file in C++ program?

g) What are logical operators and conditional operators in C++?

h) What is Operator Overloading?

i) What do you mean by Default constructors?

j) What do you mean by Abstract class and Container class?

k) What is Polymorphism?

l) What is a nested class? Give example.

m) What is a destructor? Is it mandatory that every class must have a destructor?

n) Differentiate between text files and binary files.

o) What is the task performed by *seekg()* function?

Section - B

Q2) Discuss *switch* statement with syntax and example.

Q3) Write a program to arrange the list of numbers in ascending order by using function.

Q4) How a friend function is different from a member function?

Q5) Write a program in C++ to create a file using formatted output functions.

Q6) Discuss various types of constructors in C++.

Q7) Write a program in C++ to implement the concept of Operator Overloading.

Q8) What are Virtual functions and Pure Virtual functions?

Q9) Describe different file opening modes in C++.

Q10) Describe the different file stream classes.

Q11) What is inheritance? What are its different classifications?

Q12) Write a program to implement multiple inheritance.

Q13) What are the advantages of using functions in programs? Write a program to find factorial of a number.

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