

Roll No.

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BCA (Sem. - 3rd)

OBJECT ORIENTED PROGRAMMING USING C++

SUBJECT CODE : BC - 304

Paper ID : [B0212]

[Note : Please fill subject code and paper ID on OMR]

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 × 2 = 20)

- a) What are tokens in C++? Explain with example.
- b) What are logical operators in C++? Explain.
- c) What is general structure of C++ program?
- d) What is an object? What is the relationship between an object and class?
- e) What are arithmetic and relational expression? Explain.
- f) Write a program in C++ to generate the Fibonacci series as shown below:
0 1 1 2 3 5 8 13 21 34.
- g) An unsigned int can be twice as large as the signed int. Explain how?
- h) What are pointers? Explain various advantages of pointers.
- i) Why do we need the preprocessor directive # include <iostream.h>?
- j) What is a class? How does it accomplish data hiding?

Section - B

(4 × 10 = 40)

- Q2) Define OOP? Explain various advantages of C++ over C programming language. Explain various data types support in C++ with their memory consumption. Give examples to support your answer.
- Q3) What is a Function? How functions are declared and defined in C++? With the help of suitable examples, define and distinguish between parameter passing by value, address and reference.
- Q4) Write a note on the following :
- (a) C++ stream classes.
 - (b) Decision making statements.
- Q5) What are constructor and destructor? Explain their properties. Write a program to add two numbers by using the concept of constructor.
- Q6) Explain the various functions involved in opening and closing a sequential file in C++. Explain how an array of class objects can be stored and retrieved from a file.
- Q7) Write a note on the following :
- (a) Inline Function.
 - (b) Array and String Functions.

