

D (Printed Pages 4)
(20221) Roll No.
BCA-III Sem.

18011

B.C.A. Examination, Dec.-2020

Object Oriented Programming

Using C++

(BCA-301)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt questions from **all** Sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Answer all the **five** questions. Each question carries 3 marks. Very short answer is required. $5 \times 3 = 15$

Attempt **all** questions.

- 1. Define Encapsulation. 3
- 2. List the features of oops. 3

P.T.O.

- 3. How do you define member function outside the class? Give example. 3
- 4. What is abstract class. 3
- 5. Explain the basic data types in C++ with example. 3

Section-B

(Short Answer Questions)

Note : Attempt any **two** questions.

$2 \times 7\frac{1}{2} = 15$

- 6. What do you mean by nesting of classes? Also explain how friend function is important in C++? 7½
- 7. Explain static data member & Static data member functions with example. 7½
- 8. Define polymorphism. What are different methods of implementing polymorphism in C++. 7½

18011/2

Section-C

(Detailed Answer Questions)

Note : Attempt any **three** questions.

3×15=45

9. (a) Define Inheritance. What are the various types of inheritance? Explain with suitable example. 10
- (b) Give the General form of derived class. <https://www.ccsustudy.com> 5
10. (a) What is File? Write a program to update the contents using random access. 8
- (b) Explain the concept of reusability with example. 7
11. Define Functions. What are the advantages of using functions? What are the various methods of parameter passing to the functions? Explain. 15

18011/3

P.T.O.

12. Write short notes on:

- (i) Operator overloading 5
- (ii) Functions overloading 5
- (iii) Name Spaces 5
13. (a) What are the advantages of using new & delete operators as compared to the malloc () & calloc ()? 7½
- (b) What is constructor? Explain various types of constructor with example. 7½

18011/4

<https://www.ccsustudy.com>

Whatsapp @ 9300930012

Send your old paper & get 10/-

अपने पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से