A

(20222)   Roll No. ... .

BCA-III Sem.

18011 (CV-III)

B.C.A. Examination, Dec.-2021

Object Oriented Programming

Using C++

(BCA-301)

Time : 1½ Hours]   *[Maximum Marks : 75*

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

Section-A

Note : Attempt any **two** parts. Each part carries 7.5 marks.   2×7.5=15

1.   (a) Differentiate between << & >> operators.

    (b) What is the difference between structured and an object-oriented language?

P.T.O.

(c) What is the difference between high level and a low-level language?

(d) What is a class?

(e) What is the syntax of it statement?

Section-B

Note : Attempt any **one** question. Each question carries 15 marks. 1×15=15

2.   Define classes and objects. Explain the concept of base and derived class using an example.

3.   Explain various Data Types used in C?

4.   To check a number or a string is palindrome or not.

Section-C

Note : Attempt any **two** questions. Each question carries 22.5 marks.

2×22.5=45

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5. (a) Define Array and its types. Explain one dimensional Array?

   (b) WAP to compare two strings.

6. WAP to print the following pattern:

   * * * * * *

   * * * * *

   * * * *

   * *

   *

7. Define algorithm and flowchart. Write an algorithm to check whether a given number is prime or not? Draw its flowchart as well. https://www.ccsustudy.com

8. (a) Define user defined functions and write the benefits of using user defined functions.

   (b) Write a program in C to find the sum of the series $1+2+3+4\ldots\ldots n$ terms?

9. (a) What is Constructor? Explain various types of constructor with examples.

   (b) Explain the concept of reusability with example.