

A

Printed Pages 4)

(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. $2 \times 7.5 = 15$

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 if statement?

Section-B

Note : Attempt any **one** question. Each question carries 15 marks. $1 \times 15 = 15$

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.

$2 \times 22.5 = 45$

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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:

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7. Define algorithm and flowchart. Write an algorithm to check whether a given number is prime or not? Draw its flowchart as well.

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 $1+2+3+4+\dots+n$ terms?

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

(b) Explain the concept of reusability with example.