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(21223)   Roll No. ....

BCA - III Sem.

18011

B.C.A. Examination, Dec.-2023
Object Oriented Programming
Using C++
(BCA-301)

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

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

Section - A

Note : Attempt **all** parts. Each part carries 3 marks.   3×5=15

1. (a) Give difference b/w C & C++.

(b) Explain the term "Genric Classes".

(c) Give difference between Overloading and overriding.

(d) Explain the use of C in a Cout in C++.

(e) What is inheritance? Flow is it implemented in C++ programming.

P.T.O.

Section-B

Note : Attempt any **two** questions. 7.5×2=15

2. Write a program in C++ to print first 10 nos of fibboncci series

series is 0, 1, 1, 2, 3, 5, 8, ----

3. Write about different access specifies used in C++.

4. What do you mean by Run time polymorphism. How is it achieved in C++.

Section-C

Note : Attempt any **three** questions.   15×3=45

5. Define a class named "Train" representing following members:

Data members	Members Functions
Train number	initiatize members
Train Name	Input train Data
Source	
Destination	Display Data
Journey Date	
Capacity	

Write a C++ program to test the train class.

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6. Write a C++ program that will create data file containing the list to telephone members as:

  John 34567

  Hari 56792

  .....

7. (a) Explain Dyanamic memory allocation uert to C++.

 (b) How is garbage collection done in C++.

8. Write a C++ program to swap two nos using pointers.

9. Write short notes on:

 (a) Exception Handling

 (b) Constructor & its types

 (c) Composition vs. classification hierarchy