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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. $3 \times 5 = 15$

- (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. $7.5 \times 2 = 15$

- 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++.
- 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 Me

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

....

- (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

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