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BCA-III Sem.

(Printed Pages 4)

Roll No. \_\_\_\_\_

**18011**

**B.C.A. Examination, Dec.-2024**

**Object Oriented Programming**

**Using C++**

**(BCA-301)**

*Time : Three Hours ]*

*[Maximum Marks : 75*

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

**Section-A**

**(Very Short Answer Type Questions)**

**Note :** Attempt **all** questions. Each question carries 03 marks.  $3 \times 5 = 15$

1. Compare object Oriented Programming with Procedure Oriented Programming. 3

**P.T.O.**

2. State the use of new and delete in C++ programming. 3
3. Explain garbage collection in C++ programming. 3
4. What do you mean by exception handling. Give syntax to implement. 3
5. What are access specifiers? Explain in brief. 3

**Section-B**

**(Short Answer Type Questions)**

**Note :** Attempt any **two** questions.  $7.5 \times 2 = 15$

6. Write a C++ program to find the sum of elements in an array. 7.5
7. What is the Standard Template Library (STL) and what are its components? 7.5

**18011/2**

8. Write a C++ program to implement function overloading. 7.5

### Section-C

#### (Detailed Answer Type Questions)

**Note :** Answer any **three** questions.  $15 \times 3 = 45$

9. Write a C++ program to show use of constructor & destructor. Also write properties of constructor function. 15
10. Write down a C++ program to overload binary operator. Also explain how is overriding different from overloading? 15
11. Write a C++ Program to implement multiple inheritance. 15
12. Write a C++ program that checks if a number is prime and prints all prime numbers upto a given number. 15

13. Write short notes on (any-3) 15
- (a) Generic classes
  - (b) Aggregation
  - (c) Abstract Classes
  - (d) Namespaces
  - (e) Streams & Files

18011/4

P.T.O.

18011/3