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(21224)
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

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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

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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

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P.T.O.

13. Write short notes on (any-3) 15

- (a) Generic classes
- (b) Aggregation
- (c) Abstract Classes
- (d) Namespaces
- (e) Streams & Files

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