Reg. No. ☐☐☐☐☐☐☐

III Semester B.C.A Degree Examination, March - 2021
COMPUTER SCIENCE
Object Oriented Programming Using C++
(CBCS Scheme)
Paper : BCA 303T

Time : 3 Hours   Maximum Marks : 70

Instructions to Candidates:

Answer **all** the sections.

SECTION - A

Answer any **10** questions. Each question carries **2** marks.   (10×2=20)

1. Write the basic structure of a C++ Program?

2. Differentiate between Data abstraction and Data Encapsulation?

3. Differentiate between procedure oriented and object oriented languages?

4. What is the significance of scope resolution operator in C++?

5. What is an Inline member function? How it is defined?

6. Explain 'This' pointer?

7. List the operators which cannot be overloaded?

8. What is the difference between multiple and multi - level Inheritance?

9. List out the different types of Template Arguments?

10. Which are the keywords used in Exception Handling in C++?

11. What is a File Mode? Mention any 2 file mode options for opening a file?

12. Differentiate between tell g( ) and tellp ( ) functions?

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SECTION - B

Answer any **5** questions. Each question carries 10 marks.   (5×10=50)

13. a)   Explain the characteristics of OOPS?   (5)

    b)   What are parameterized and Non - parameterized manipulators? Explain with examples?
                                                                                         (5)

14. a)   What is function Overloading? With an example.   (5)

    b)   Explain friend function with example program.   (5)

15. a)   Define Polymorphism? Explain.   (5)

    b)   Explain Virtual function with example?   (5)

16. a)   Differentiate between constructor and destructor?   (5)

    b)   What is copy constructor? Explain with an example?   (5)

17. a)   What is Exception Handling? Explain different blocks in Exception Handling?   (5)

    b)   Write a C++ program to perform addition of two matrices using operator overloading?
                                                                                         (5)

18. a)   Describe the types of Inheritance?   (5)

    b)   Write a C++ program to create a student report using Inheritance technique?   (5)

19. a)   Write a note on static data member functions.   (5)

    b)   Explain function template with an example.   (5)

20. a)   What are access specifiers? Explain with an example.   (5)

    b)   What is Command line argument? Explain with example.   (5)