15321

Reg. No.

III Semester B.C.A. Degree Examination, March/April - 2023
COMPUTER APPLICATIONS
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 **Ten** questions. Each question carries **two** marks.   (10×2=20)

1. Define class and object.

2. What is constructor?

3. Define inheritance.

4. Define this operator.

5. What is access specifier? Mention its types.

6. List the operators which cannot be overloaded.

7. Define token and variable.

8. What is function prototype?

9. What are static and dynamic binding?

10. What is exception handling?

11. What is reusability?

12. What are input and output streams?

[P.T.O.

SECTION - B

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

13.   a.   Explain the structure of C++ program.   (5)

     b.   Explain the datatypes in C++.   (5)

14.   a.   Explain any five basic concepts of object oriented programming.   (5)

     b.   What is an inline function? Explain with an example.   (5)

15.   a.   Explain recursion with an example.   (5)

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

16.   a.   Explain any three types of inheritance.   (5)

     b.   Explain polymorphism with an example.   (5)

17.   a.   Explain exception handling with an example.   (5)

     b.   Write a C++ program to swap two numbers.   (5)

18.   a.   Explain any three types of constructors.   (5)

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

19.   a.   Explain function templates with its general form with an example.   (5)

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

20.   a.   Write short note on storage classes with example.   (5)

     b.   Write short note on pointers with example.   (5)

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