BCA - 2 nol Sem Total Pages: YED

Roll No.

3950

NBCA/M-24

OBJECT ORIENTED PROGRAMMING USING C++

Paper: B23-CAP-201 (CC-A2) (BCA)

Time: Three Hours]

[Maximum Marks: 50

Note: Attempt *five* questions in all, selecting at least *one* question from each unit. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

- 1. Define following terms:
 - (i) Data hiding.
 - (ii) Resolution operator.
 - (iii) Copy constructor.
 - (iv) Define any two string operator.
 - (v) Handling uncaught exceptions.

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UNIT-I

- 2. Explain following in detail:
 - (a) Inline Functions.
 - (b) Union in C++.

10

- 3. Explain following in detail:
 - (i) Function overloading.
 - (ii) Pointer.

10

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UNIT-II

- 4. What is the use of constructor and destructor in C+?
 How do we declare them? Write a program to demonstrate
 the concepts.
- 5. What are friend functions and friend classes? Write a normal function which adds objects of the complex number class. Declare this normal function as friend of complex class.

UNIT-III

- 6. Explain following in detail:
 - (i) Abstract Class.
 - (ii) Virtual Base Class.

10

7. Write and explain a program in C++ to overload any unary operator.

UNIT-IV

- 8. What is the benefit of handling exceptions? How can you catch all exceptions? Explain with suitable example.
- 9. What do you mean by polymorphism? How can you achieve polymorphism with pointers? How late binding is different from early binding?