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BCA S.Y. (Sem-III) EXAMINATION

MARCH 2020

Object Oriented Programming (305)

Seat No:

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Student's Signature

[Time: Three Hours]

[Max.Marks: 70]

N.B

1. All questions are **compulsory**.
2. Figures to the **right** indicate full marks.

Q.1 Answer in short.

10

1. Explain static data member with example?
2. What is the use of scope resolution operator?
3. What is pure virtual function?
4. Explain try... catch block with example.
5. What is abstract class?
6. Why it is necessary to use delete operator along with new operator of memory management?
7. What is overriding?
8. What is the use of tellg() and tellp() in file handling
9. Explain different access specifiers.
10. Define class and object.

Q.2 Do as Directed

15

- A) What is Type Conversion? Explain class to class conversion.
- B) What is Inheritance? Explain in difference with containership.

08

07

OR

- A) Explain when to use friend function with proper example.

08

- B) What do you mean by operator overloading? Write rules for operator overloading. Give example.

07

Q.3 Answer the following. (Any Two)

15

- A) Explain command line arguments used along with file with example.
- B) What is run-time polymorphism? State the difference between with compile-time polymorphism in brief.
- C) Explain concept of static class and static functions with example.

Q.4 Answer the following. (Any Two)

15

- A) What is Exception Handling? Explain its steps with example.
- B) Solve the following operators with manipulator:
 - i) 20 column width
 - ii) No digit precision
 - iii) Left alignment
 - iv) Filling unused spaces with '+'
 - v) Display Trailing Zero



- C) Explain difference between Object-Oriented programming and Procedural-Oriented Programming.

Q.5 Do as directed. (Any Two)

- 1:
- A) Write a program in C++ to write 10 words in a file "strings.txt". Read each word from the file and count total no. of vowels, consonant and special characters.
- B) Write a program to create a class scale. Define two variables feet and inches. Define getscale(), putscale() and '+' function to add these two values of objects. Pass objects as function arguments.
- C) Create two class 'Rupees' and 'Dollar', which takes i/p in Dollar and convert the currency into Rupees.