Set - 1

R18

Course Code: CS305PC

II B. Tech I Semester Regular (2019-20)

OBJECT ORIENTED PROGRAMMING USING C + +

Common for CSE & IT Departments

Time: 3 hours Max. Marks: 75

Answer **ALL** the question in **Part-A** and **Part-B**

Part A

(25 Marks)

1. a) What is the difference between a constructor and destructor? (2)
   b) State the differences between pure virtual function and virtual function. (2)
   c) Define scope and lifetime of a variable. (2)
   d) Compare private and protected member access modes. (2)
   e) Compare the OOP Language and structured programming language (3)
   f) How to protect the data with private inheritance? (3)
   g) What is type conversion? Write an example (3)
   h) Define stream (2)
   i) What are the advantages of inheritance? (3)
   j) What are sequential access files? (3)

Part B

(50 Marks)

2. a) What are the features of object programming language? (5)
   b) How will you destroy the objects initialized by the constructor in the program? (5)

OR

3. a) Define inline function. Write a C++ program for finding the area of a triangle using inline functions. (5)
   b) How to define a class in C++? How to declare objects for the class? Give an example. (5)
4. Explain the four different types of storage classes in detailed (10)

OR

5. Explain different forms of inheritance. Illustrate with an example each type with an example. (10)
6. a) Explain about virtual destructors? (5)
   b) Write a recursive program for finding the GCD between two numbers. (5)

OR

7. a) Explain the concept of friend function (5)
   b) Write a C++ Program for displaying Fibonacci Series up to a given number N. (5)
8. a) What are the Operators in C++? Explain with examples (5)
   b) How to pass the variables from one function to another function? Give illustrations. (5)

OR

9. a) Write about C++ Operator Overloading working example (5)
   b) Discuss about the member function of Istream class. (5)
10. a) What is Binding? Differentiate between static and Dynamic Binding. (5)
    b) Explain the parameter passing methods with suitable examples. (5)

OR

11. a) Write about scope resolution operator in detail. (5)
    b) Discuss the advantages and functions of OOPS. (5)