C U SHAH UNIVERSITY

Subject Code: Branch: CE
Subject Name: **Object Oriented Programming (OOP)**   Semester: II
Total Marks: 70

Q-1   Attempt the followings.
    a)   Explain any four Basic Concepts Of Object Oriented Programming   7
    b)   Write advantage and application of the object oriented programming   7

    Attempt any four.
Q-2   Attempts the following.
    a)   Explain friend function with suitable example   7
    b)   Write a class called Temp having member functions to convert the given temperature in   7
        Fahrenheit to Celsius.

Q-3   Attempts the following.
    a)   What is inline function? Write a program to add, subtract, multiply and divide two   7
        given numbers using inline function.
    b)   Write a program to calculate the area of different shapes using an overloaded function   7
        called volume.

Q-4   Attempts the following.
    a)   Explain function with default argument passing with suitable example   7
    b)   What is class template? Write a program which illustrate the use of class template   7

Q-5   Attempts the following.
    a)   What is Exception? Write a class which illustrate the use of exception handling   7
    b)   Give definition of constructor and destructor? Explain copy constructor with suitable   7
        example

Q-6   Attempts the following.
    a)   Write a program to overload the operator + such that it adds two objects of point.   7
    b)   What is a virtual function? Write a program which Illustrate its use through a simple   7
        program

Q-7   Attempts the following.
    a)   What is inheritance? Give the types of inheritance and Write a program illustrating   7
        single inheritance?
    b)   Write a program to overload the unary minus operator such that it negates the sign of   7
        the data members of an object.

Q-8   Attempts the following.
    a)   What is Command Line Arguments? Explain with suitable example.   7
    b)   Explain the file functions put(), get() , getline() and write() with suitable example   7