

COURSE: (CL-1004) OBJECT ORIENTED PROGRAMMING LAB

LAB TASK # 11 WEIGHTAGE: 2

**NOTE:**

Only submit .cpp file of each question in a folder. Anyone who submits any other format file will get straight **ZERO.** Each question should have a separate .cpp file. Copy Paste or other UFM will also get **ZERO**. Use the following format for naming the folder Roll#\_Name (P18-1234\_NAME).

**Q No.1:** Answer the questions (i) and (iii) after going through the following class:

class Seminar

{

int time;

public:

Seminar() //Function 1

{

time = 30;

cout << "Seminar starts now" << endl;

}

void lecture() //Function 2

{

cout << "Lectures in the seminar on" << endl;

}

Seminar(int duration) //Function 3

{

time = duration;

cout << "Seminar starts now" << endl;

}

~Seminar() //Function 4

{

cout << "Thanks" << endl;

}

};

i. Write statements in C++ that would execute Function 1 and Function 3 of class Seminar.

ii. In Object Oriented Programming, what is Function 4 referred as and when does it get invoked/called?

iii. In Object Oriented Programming, which concept is illustrated by Function 1 and Function 3 together?

**Q No.2:** Answer the questions (i) and (ii) after going through the following class:

class Test

{

char paper[20];

int marks;

public:

Test () // Function 1

{

strcpy (paper, "Computer");

marks = 0;

}

Test (char p[]) // Function 2

{

strcpy(paper, p);

marks = 0;

}

Test (int m) // Function 3

{

strcpy(paper,"Computer");

marks = m;

}

Test (char p[], int m) // Function 4

{

strcpy (paper, p);

marks = m;

}

};

i. Write statements in C++ that would execute Function 1, Function 2, Function 3 and Function 4 of class Test.

ii. Which feature of Object Oriented Programming is demonstrated using Function 1, Function 2, Function 3 and Function 4 together in the above class Test?

**Q No.3:**Consider the definition of the following class:

class Sample

{

private:

int x;

double y;

public :

Sample(); //Constructor 1

Sample(int); //Constructor 2

Sample(int, int); //Constructor 3

Sample(int, double); //Constructor 4

};

i. Write the definition of the constructor 1 so that the private member variables are initialized to 0.

ii. Write the definition of the constructor 2 so that the private member variable x is initialized according to the value of the parameter, and the private member variable y is initialized to 0.

iii. Write the definition of the constructors 3 and 4 so that the private  
member variables are initialized according to the values of the parameters.