**Tutorial and Assignment Sheet – EVEN 2022**

**15B11CI211 – SDF-II**

**Instructions**

1. Tutorial Sheet of Week Number ‘X’ will be posted on the Google Classroom on Friday of week number ‘X-1’.

2. It will be based on topics covered in Lecture in week ‘X’.

3. Students are advised to come prepared in tutorial by revising the lectures of week ‘X’ and also by trying to attempt the tutorial sheet questions by themselves.

4. As tutorials will be problem solving based, always join the tutorial with a notebook and pen with you.

**Tutorial 3 (21st February to 26th February 2022)**

**Topics: Classes and Objects**

Q1. Define a class to represent a book in a library. Include the following members:

Data Members Book Number, Book Name, Author, Publisher, Price, No. of copies issued, No. of copies Member Functions:

(i) To assign initial values

(ii) To issue a book after checking for its availability (iii) To return a book (iv) To display book information.

Q2. Declare a class to represent bank account of 10 customers with the following data members. Name of the depositor, Account number, Type of account (S for Savings and C for Current), Balance amount.

The class also contains member functions to do the following:

(i) To initialize data members

(ii) To deposit money

(iii) To withdraw money after checking the balance (minimum balance in Rs. 1000) (iv) To display the data members

Q3. What are static members of a class? When and how are they useful?

Q4. Consider the following class declaration and answer the questions below:

class SmallObj

{

private:

int some,more;

void err\_1() {cout<<"error";}

public:

void Xdata(int d) {some=d;more=d++; }

void Ydata() {cout<<some<<" "<<more; }

};

(i) Write the name that specifies the above class.

(ii) Write the data of the class with their access scope.

(iii) Write all member functions of the class along with their access scope. (iv) Indicate the member function of the SmallObj that sets data.