

OOP Lab Midterm Examination

3rd Semester, Fall 2022

Section: A

Date: Fri, 9th December 2022

Time: 30 Min(s)

Marks: 15

Scenario: University Student Attendance

Make a **C++ Class** that records university student attendance. The class stores the **student registration number, student name, semester, section, subject, date, and attendance**. *Select suitable data type for each data member.* [3 Marks]

The class must have **no-argument, argument, and copy constructors**. The class must have a **show** function to fetch the student attendance. [2 + 2 + 2 + 2 Marks]

Make sure that user only enters the valid attendance i.e. 0 (for absent), 1 (for present). *How will you introduce another class in the code? Will there be inheritance in it or will that be independent from each other? Also, how will you keep track of attendance for more than a single date e.g. two in a week, eight in a month, etc.?* [2 Marks]

Write a **main** function to test the functionality of the code. Make suitable objects. Also, show the use of copy constructor. And create an array of objects e.g. 3 showing three students data for a given class. Store the data and show too. [2 Marks]

All the best.