

**ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)**  
**ORGANISATION OF ISLAMIC COOPERATION (OIC)**  
**Department of Computer Science and Engineering (CSE)**

**Quiz 01****SUMMER SEMESTER, 2020-2021****DURATION: 25 MINUTES****FULL MARKS: 15**

**CSE 4635: Web Architecture**

**Conform to the rules of the examination. Violation of any of the rules may result in termination.**

Answer **all the questions**.

Write Student ID and Page Number on all pages. The first page should contain Student ID and Name.

Figures in the right margin indicate marks and CO-PO mapping.

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1. You have been asked to design a Student Attendance System for a client. The client has asked that you use any one of 1-tier, 2-tier or 3-tier architecture for the project as you see fit.

Whichever architecture you choose, you need to use the MVC pattern. As for the features of the project, the client has specified the following:

- There will be two categories of users: Teachers and Students.
- There will be a single login page for both the teachers and students. The controller for this page will determine the type of user based on their IDs after consulting with the database.
- Teachers can take attendance for their respective subjects.
- Students can view their class attendance for each class

Based on the features mentioned, which architecture (1-tier, 2-tier, or 3-tier) will you choose?

Justify your choice.

After selecting your architecture, draw a rough architectural diagram to show the distribution of each of the component of your application (vis login page, login controller etc.) in each tier(s).

8  
(CO 2)  
(PO 1,  
PO 2,  
PO 4)

2. Although HTTP is a stateless protocol, it employs strategies that allow stateful sessions. Explain with example.

7  
(CO 1)  
(P 10,  
P 12)