

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 (2-tier, 3-tier or MVC) 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)