CSE 3<sup>rd</sup> Year 6<sup>th</sup> Semester 01 March, 2022

## ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT) ORGANISATION OF ISLAMIC COOPERATION (OIC)

## **Department of Computer Science and Engineering (CSE)**

Quiz 02 DURATION: 30 MINUTES **SUMMER SEMESTER, 2020-2021** 

**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.

- 1. Answer the following questions related to JavaScript:
  - i. In what ways can you create functions in JavaScript? Write down their syntax.
  - ii. What are the differences between JSON objects and JavaScript objects?
  - iii. What do you understand about the dynamic typing nature in JavaScript? Explain with example.
  - iv. Assume you have a **button** element in your HTML page. The text inside this element is "Log In" and the **class** of this element is "btn-class". How can you use DOM manipulation to change the text of this button to "Sign In"? Write down the necessary code.
  - v. What are the differences between function declaration and function expression? Which one should you use when handling events in your webpage? Write down the syntax you would use to handle a click event on the "Sign In" button mentioned in the previous question.
- Assume you are working on a web application that has three pages: homepage.jsp, profile.jsp, and items.jsp. Apart from these three pages, you also have a header.jsp. Whenever a user logs in to the application, his/her username is stored as a request parameter called username. Now, answer the following questions:
  - i. When a user accesses any of the three pages mentioned above, the first line of the page prints the following message:
    - For the homepage, it prints: "Welcome to IUT Mart!"
    - For the profile page, it prints: "This is your profile," then shows the username of the user. E.g., "This is your profile page, Anas".
    - However, the message is printed from the header.jsp page. Write down the necessary code inside your homepage.jsp, profile.jsp, and header.jsp to ensure that these two separate messages are printed for the two pages from the same header.jsp page.
  - ii. Assume you have a javabean called ItemsBean in your application, and it has three variables: id, name and price with all the necessary getter and setter methods. Also assume that you obtained a list of 10 items from your database with the id value ranging from 1 to 10. Now, write down the code inside your items.jsp page to dynamically load the information (id, name and price) about the 10 items. [You cannot hard-code the information about the items.]