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UNIVERSITY EXAMINATIONS 2023/2024

FIRST YEAR, SECOND SEMESTER EXAMINATION FOR DIPLOMA IN INFORMATION TECHNOLOGY AND CERTIFICATE IN INFORMATION TECHNOLOGY

CIT 1211/CIT 2211: CLIENT-SIDE APPLICATION DEVELOPMENT/INTERNET APPLICATION DEVELOPMENT I

DATE: DECEMBER 2024

TIME: 1½ HOURS

INSTRUCTIONS: Answer Question ONE and any other TWO questions.

QUESTION ONE (30 MARKS)

- a) Define the term client in web development (2 Marks)
- b) You are an experienced web developer. Identify any reasons why you would want to use CSS in your websites. (4 Marks)
- c) Describe three categories of CSS selectors (6 Marks)
- d) As a web developer, briefly explain what purpose Javascript serves in websites (2 Marks)
- e) Write a HTML file that contains Javascript function that is called when a button is clicked (4 Marks)
- f) The CSS background properties are used to define background effects for elements. Identify any two background properties. (2 Marks)
- g) Using examples, demonstrate two ways of writing comments in CSS (4 Marks)
- h) Javascript in most websites exists as external files. What advantages does this have over having scripts in the same file as html? (2 Marks)



MUST is ISO 9001:2015 and



ISO/IEC 27001:2013 CERTIFIED

- i) Using appropriate examples, demonstrate comments in Javascript (4 Marks)

QUESTION TWO (15 MARKS)

- a) Identify any six examples of Javascript events (6 Marks)
- b) Javascript can access the DOM of a HTML page. Assuming we have a p tag in our HTML page that has the id 'hero', write a Javascript program that changes its text to "Hero's Page" (5 Marks)
- c) In Javascript, we can access elements in HTML by specifying either id or class name. write Javascript statement for:
- i. Finding an element with the id "paperID" (2 Marks)
 - ii. Finding an element belonging to the class "paperClass" (2 Marks)

QUESTION THREE (15 MARKS)

- a) The IT Department has contracted you to develop a website that registers students for a unit. Write a simple website that captures the student's name and registration number. Write a Javascript function that ensures that these values are not blank (8 Marks)
- b) Write a HTML file that contains Javascript function that is called when a button is clicked (6 Marks)
- c) What does the acronym CSS stand for? (1 Mark)

QUESTION FOUR (15 MARKS)

- a) You have been contracted to develop a website to capture student details. Write a simple form that captures the student's name and age. Write a Javascript function that checks that the name is not blank (6 Marks)
- b) Write a CSS script that applies a red background color, a white font color, and font size of 14 to all <p> elements in a html file (5 Marks)
- c) As a Javascript programmer, write a Javascript function that returns the sum of three numbers (4 Marks)

