UNIVERSITY OF COLOMBO, SRI LANKA
FACULTY OF ARTS
SECOND YEAR (STUDY STREAMS) FINAL EXAMINATION OF
BACHELOR OF ARTS DEGREE - 2022/2023
SECOND SEMESTER
ICT 2214: WEB AND GRAPHIC DESIGNING

Duration: **2 hours**

Answer **FOUR (4)** questions only.

This paper consists of **Five (5)** questions from page **1 - 5**.

Total marks: **100**

Question 1(1.1 – 1.4)   (25 Marks)

1.1)   Explain the difference between HTML tags and HTML elements.   (6 Marks)

1.2)   What is the purpose of the **<div>** tag in HTML? Provide an example by using it in a HTML code.   (6 Marks)

1.3)   Write a HTML code to create the following Ordered and Unordered lists.   (8 Marks)

An unordered list (ul):

- Tacos
- Ceviche
- Tamales
- Mole poblano
- Sopes

Or an ordered list (ol):

1. Tacos
2. Ceviche
3. Tamales
4. Mole poblano
5. Sopes

Figure 1[HTML Ordered and Unordered List]

1.4)   What is the role of the **alt** attribute in the **<img>** tag?   (5 Marks)

Question 2(2.1 – 2.4)   (25 Marks)

Write the HTML codes for the following tasks:

2.1)   Create a basic HTML document structure including a **<title>**, **<head>**, and **<body>**. Set the title of the page to "My First Web Page".   (6 Marks)

2.2)   Insert an image with the source URL "image.jpg" and an alternative text "My Image".   (3 Marks)

2.3) Create a table with two columns and three rows. Fill the table with any content of your choice.

(6 Marks)

Example :

Student's Name	BA Number
K.A.Nayomi Hewage	2020ba23456
R.D.J.Pawanthi Kuruppu	2023ba67890
Q.A.Dasuni Jayasekara	2021ba45362

Figure 2 [Sample Table]

2.4) Write HTML code to create the following form. Describe how CSS can be used to style form elements like input fields and buttons. (10 Marks)
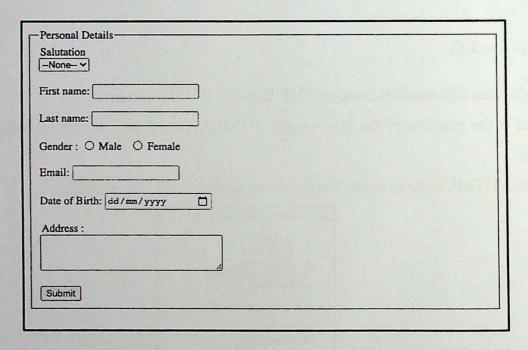

Figure 3 [Sample Interface]

Question 3(3.1 – 3.4)   (25 Marks)

3.1) What is CSS used for in web development?   (4 Marks)

3.2) Explain the difference between inline, internal, and external CSS styles using Examples.

(10 Marks)

3.3) What are CSS selectors? Give three (03) examples of different types of selectors.   (6 Marks)

3.4) How do you link an external CSS stylesheet to an HTML document? Provide an example of using an external CSS file in an HTML document saved as "External JS.js".   (5 Marks)

Question 4(4.1 – 4.4) (25 Marks)

4.1) Write a JavaScript program using "IF FUNCTION" that computes the corresponding grade of the following students using given marks. (10 Marks)

Student Name	Marks
David	
Vinoth	
Divya	
Ishitha	
Thomas	

The grades are computed as follows:

Range	Grade
<60	F
<70	D
<80	C
<90	B
<100	A

Figure 4 [Table of Marks and Grades]

4.2) Determine the output of the provided JavaScript code. (5 Marks)

```
<!DOCTYPE html>
<html>
<body>

<h1>JavaScript Arithmetic</h1>
<h2>Arithmetic Operations</h2>
<p>A typical arithmetic operation takes two numbers (or expressions) and produces a new number. </p>
<script>
var a = 3;
var Answer = (100 + 50) * a;
document.write(Answer);
</script>

</body>
</html>
```

Figure 5 [JavaScript code 1]

4.3) Analyse and determine the output of the provided code.   (5 Marks)

```
<!DOCTYPE html>
<html>
<body>

<h1>JavaScript Functions</h1>

<p>Call a function which performs a calculation and returns the result:</p>

<script>
var x = myFunction(4, 3);
document.write(x);

function myFunction(a, b) {
  return a * b;
}
</script>

</body>
<html>
```

Figure 6 [JavaScript code 2]

4.4) Write a java script Multiline comment for the below paragraph.   (5 Marks)

"The code below will change the heading with id = "myH" and the paragraph with id = "myP" in   my web page:"

Question 5(5.1 – 5.3)   **(25 Marks)**

5.1) When developing a website, several key factors play a crucial role in ensuring its success and effectiveness. What are they?   (5 Marks)

5.2) When developing a website, what techniques will you employ to gather information effectively?   (5 Marks)

5.3) Specify whether each statement is **true** or **false** when considering graphic design disciplines in website development. **Explain why**?   (15 Marks)

I.   User interface (UI) design, a subset of graphic design, focuses on designing interactive elements and interfaces that enhance usability and user interaction on the website.

II.   Graphic design disciplines alone cannot guarantee the success of a website; effective collaboration among designers, developers, marketers, and stakeholders is essential for a well-rounded and successful web development project.

III.   Graphic design disciplines play a crucial role in website development, contributing to the visual appeal and user experience of the site.

IV.   Graphic designers are responsible for creating visual elements such as logos, images, icons, and layouts that enhance the overall design and branding of the website.

V.   While graphic design is important, it is not the sole factor in website development. Other aspects such as usability, functionality, and performance also play significant roles.

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