

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

Department of Computer Science and Engineering (CSE)

MID SEMESTER EXAMINATION

WINTER SEMESTER, 2018-2019

DURATION: 1 Hour 30 Minutes

FULL MARKS: 75

CSE 4581: Web Programming

Programmable calculators are not allowed. Do not write anything on the question paper.

There are **4 (four)** questions. Answer any **3 (three)** of them.

Figures in the right margin indicate marks.

- | | | |
|----|---|---|
| 1. | a) What are the differences between "Internet" and "World Wide Web"? | 4 |
| | b) Explain the stages in Name Resolution Process in DNS. | 8 |
| | c) With the help of a diagram describe the HTTP Request and HTTP Response components. | 8 |
| | d) What will be the output of the following code in Figure 1? | 5 |

```

<!DOCTYPE html>
<html>
<head>
  <script type="text/javascript">
    var y, i;
    function printMessage() {
      y=1;
      for( i=3; i<=11; i++){
        y += i;
      }
      document.getElementById('ar').innerHTML = "Output: " + y;
    }
  </script>
</head>
<body>
  <form name="f" action="">
    <input type="button" value="Sum!" onclick="printMessage()">
  </form>
  <div id="ar">
  </div>
</body>
</html>

```

Figure 1: Code for question no. 1 (d).

- | | | |
|----|--|----|
| 2. | a) What are the different possible values for the CSS property <i>position</i> ? Explain the behavior of an element when its position is set to each of these values and mention the differences between them. | 10 |
|----|--|----|

- b) Design the webpage layout given in Figure 2 below. Use different gray colors (#666, #CCC, #DDD, #777) to represent the colors in the background of different sections. You can also assume the dimensions. (Note: writing the full paragraph texts is NOT necessary). 12

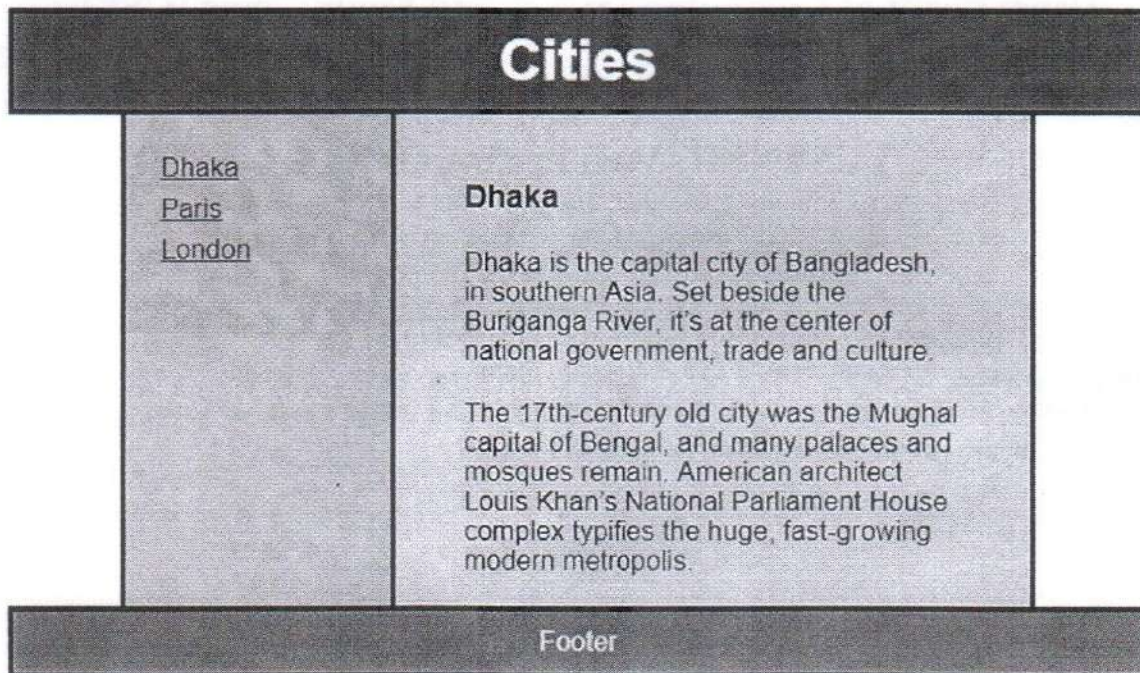


Figure 2: Cities website, for question no. 2 (a).

- c) What are considered Web Safe Colors in web development? Give an example of such colors. 3
3. a) Explain the concept of vertical margin collapse in HTML/CSS. 4
- b) The following table, Figure 3, shows some students information. Write the HTML code to generate the table in a webpage having the following properties. 11

Table Caption: Students Information, **Table Border:** 1, **Cell Padding:** 10

Student ID	Name	Phone Number		Courses				
1001	X	8901	5656711	<ul style="list-style-type: none">• CSE 4101• CSE 4102				
1002	y	8902	5656712	<table><tr><td>1</td><td>CSE 4105</td></tr><tr><td>2</td><td>CSE 4107</td></tr></table>	1	CSE 4105	2	CSE 4107
1	CSE 4105							
2	CSE 4107							
1003	X	8903	5656713	<ul style="list-style-type: none">• CSE 4103• CSE 4105				

Figure 3: Students Information, for question no. 3 (b).

c) Given the following unordered list,

- Home
- About
- Services
- Contact

Write CSS code required to transform the above list into a navigation bar list as follows, Assume the normal tags were used to create the list



d) What are the three possible ways to apply CSS styles to a web page?

4

4. a) Write the HTML code to generate the Sign-up form given in Figure 4 below.

13

Sign Up

Personal Information

 Name:

 Password:

 Gender: ☐ Male ☐ Female

 Email:

 DOB:

Other Information

 Country:

 Message:

☒ Receive Updates

Sign up

Figure 4: Sign up form, for question no 4 (a).

b) Define and state the differences between the following.

4×2

i. Inline Elements and Block Elements

visibility: hidden and display: none CSS properties

c) What is the use of the *map* tag in HTML? Give an example.

4