National University of Computer and Emerging Sciences, Chiniot-Faisalabad Campus Course Corte C54632 Web Programming Course Name: Semester Spring-2024



Degree Program BS(CS)

60 Minutes Exam Duration: Wednesday, March 6, 2024

Paper Date: ALL Sections

Exam Term &

Type

1st Sessional I Closed Book

Course Instructor

Dr. Iqra Muhammad, Ms. Sumaira Mustafa, Mr. Hannan Farooq

Student Name: Mozeb Khan Roll No. 20F-016 | Section: 60

Q.3 Total Obtained

Marks \$20 20/13 10/3

Instruction/Notes:

Attempt all questions Programmable calculators are not allowed

ibject

50

5

Total Marks

No of Page(s)

Examiner Signatus

Required Answer Book, No.

Question 1: MCQs [Marks 20]- 20 Mins

Please fill the table mentioned below

- 1 What is the purpose of the HTML <meta> tag with the "viewport" attribute?
 - a) To define the character set of the document
 - b) To specify the keywords for search engines
 - (c)) To set the size and scale of the viewport for responsive web design
 - d) To define the title of the document
- What is the correct HTML to create a hyperlink that will open in a new tab?
 - a))
 - b)
 - c)
 - d)
- 3. Which HTML tag is used to create a hyperlink that refers to another section within the same document?
 - a) <link>
 - b) <href>
 - <anchor>
- Which HTML tag is used to define a section of text that has been deleted from a document?
 - a) <strike>
 - b)
 - c) <remove>
 - <deleted>
- 5. What is the correct HTML for creating a checkbox input field?
 - a) <input type="check">
 - b) <checkbox>
 - c) }<input type="checkbox">
 - d) <check>
- 6. Which CSS property is used to change the text color of an element?
 - a) text-color
 - b) font-color
 - c) color
 - d) text-style

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7. Which CSS property is used to control the spacing between lines of text?
a) line-height
b) text-spacing
() line-spacing
(1) text-line
8. Which CSS property is used to control the size of an element's border?
(a) border-size
b) border-width
c) size
d) border
9. Which CSS property is used to control the space between the content and the border of an element? (a) padding
b) margin
c) space
d) border-spacing
10. What is the correct CSS syntax to create a fixed background image that doesn't scroll with the rest of the paper.
a) background-attachment: fixed;
b) background-scroll: none;
c) fixed-background: true;
d) background: fixed;
11. In Bootstrap, which class is used to create a container for the grid layout?
a) .container
(b) grid-container
c) .row
d) .grid-row
12. Which class is used to create a column that spans 4 columns on extra-small devices and 6 columns on medium
devices in Bootstrap?
(a)).col-xs-4 .col-md-6
b) .col-4 .col-md-6
c) .col-xs-4 .col-sm-6
d) .col-4 .col-sm-6
13. In Bootstrap, which breakpoint size would typically apply to tablets?
a) md
b) sm
(c) \lg
d) xl
14. Which Bootstrap class is used to create a fixed-width container that centers its content horizontally?
a) .container-center
b) .container-fluid
c) .container-fixed
(d) .container
15. What is the purpose of the gutter value in Bootstrap's grid system?
a) To control the space between rows in the grid.
b) To control the space between columns in the grid.
(c) To set the overall width of the grid container.
d) To define the maximum width of grid items.
16. Which method is used to add an element to the end of an array in JavaScript?
(a) push()
b) add()
c) insert()
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d) append() 17. What does the "typeof" operator do in JavaScript? a) It checks if a variable is undefined. It returns the data type of a variable. It converts a variable to a string (c) d) It checks if a variable is null. 18. Which of the following is NOT a valid way to declare a JavaScript variable? a) let x = 5; b) var y = 10; const z = 15; d) variable w = 20; 19. Which of the following is a correct way to declare a JavaScript array? a) let colors = {"red", "green", "blue"}; (b)) let colors = ["red", "green", "blue"]; c) let colors = (red, green, blue); d) let colors = "red", "green", "blue"; 20. What is the purpose of the querySelectorAll() method in the DOM? It selects the first element that matches a specified CSS selector. (b) It selects all elements that match a specified CSS selector and returns them as a NodeList. c) It selects elements based on their class names and returns them as an array. It selects elements based on their IDs and returns them as a NodeList. Q. 10 7 Q. 9 Q. 1 Q. 8 Q. 2 Q. 5 Q. 7 Q. 6 Q. 3 d b 0 9 a a C 0 Q. 19 Q. 20 Q. 18 Q. 11 Q. 17 Q. 15 Q. 16 Q. 12 Q. 13 Q. 14 b 0 Juestion 2: MQQs [Marks +5 = 10 Marks] - 15 Mins ou are tasked with creating a webpage for a photography portfolio. The page should display a grid of images, each with caption below it. Additionally, each image should have a hover effect where the opacity changes to indicate nteractivity. Your task is to fill in the missing HTML and CSS code to achieve this layout and styling. 'art A: HTML <!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>Photography Portfolio</title> k rel="stylesheet" href="styles.css"> </head> <body> <div class="gallery"> <!-- Fill in the code here to create a grid of images --> <!-- Each image should have a caption below it --> Caption

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```
dia .
 s/body >
 </html>
Part B: CSS
 gallery
     /* Add CSS properties to create a grid layout */
   layout: grid; box model: flex;
 .image-container {
   /* Add CSS properties to set the size and spacing of the images */
    Size: 20 pm; spaceing: auto;
 .gallery img {
     /* Add CSS properties to change the opacity of the image on hover */
    opacity, oss;
}
.gallery img:hover {
     /* Add CSS properties to style the caption text */
fext-decuration = underline;
.caption {
   color :: white;

neigr font-weight = bold;

fond-style: arial-times new roman;

padding: lopn;
```

Question 3: MCQs [20 Marks] - 25 Mins

You are developing a to-do list application using JavaScript. The application allows users to add new tasks to a list dynamically. Each task displayed in the list is represented by a list item element containing the task text and a delete button. Users can add a task by entering text into an input field and clicking a button. Upon adding a task, it appears in the list along with a delete button. Users can then delete tasks individually by clicking on the delete button next to each task.

Description:

The addTask() function facilitates the addition of tasks to the to-do list. Here's an overview of how it works:

- 1. It retrieves the task text entered by the user from the input field with the ID "taskInput".
- 2. If the input field is not empty, it creates a new list item () element to represent the task.
- 3. Inside the list item, it creates a span element () to display the task text.
- 4. It creates a delete button (<button>) for each task to allow users to remove tasks individually.
- 5. An event listener is added to the delete button so that when clicked, it removes the corresponding list item from the task list.
- 6. The new list item, along with the task text and delete button, is appended to the task list.
- 7. The input field is cleared after adding the task.
- 8. If the input field is empty, an alert is displayed prompting the user to enter a task.

0026

```
function addTask() (
 let task Text = document get Element ByID ("task Input").
  If (task Text =="")" } alert ("Enter a task");}
        text "  list of To do Tosts",
  text = ""< span>"+"task Text;
  text += "Kyspans";
  text + = "< button onclick = "deletelist I tem (this)">+
  Delete Button </button>';
   text + = " 4li>";
   List Child = document.get Element By Tag Name ("ul");
   $ 1 List Child is a node which have lists of tasks &
   list Item = document create Etement(text);
   1 " create that list for stext of Lutton"/
  document. Lody. list Child append (list Item);
   / Append list item to plready existing list "/
   document get Element By ID ("task Input") inner HTML="";
   1º [lear input field later 1/
5) function deleteListIten(#id) §
        list Child = document. get Elements Tag Namel "he");
        document body list Child. Temore (
        list I tem = downeut get Eloment by ID ("id");
downeut . body . list Child . remove ( list Item);
```