MATRIX COLLEGE

MID TERM EXAM

WEB PROGRAMMING

FALL 2021

INSTRUCTOR: SUTHAKHAR PONNAMBALAM

INSTRUCTIONS:

•   Answer all the questions.

•   Submission should only be a .pdf file(firstname_lastname_studentid). No other file types will be accepted.

•   Do not paste code or include screenshots, you have to write them wherever needed.

•   The maximum time limit is 11 am EST. Any delayed submission will incur 10% penalty per day.

•   Avoid plagarism at all costs.

SECTION – I (10 * 1 = 10)

•   What is the proper way to include internal css.

•   <style>

•   <link>

•   <rel>

•   <script>

Answer: <style>

•   What is the css code for including a flexbox?

•   Display: flexbox;

•   Display: flex;

•   Display = "flex";

•   None of the above

Answer: Display: flex;

•   The default flex direction is ?

•   Row

- Column-reverse

- Row-reverse

- Column

Answer: Row

- HTML is a _____ language.

- Design

- Style

- Markup

- Programming

Answer: Markup

- Let and const have what advantage over var?

- Easy to use

- Scope

- Functions

- All of the above

Answer: Scope

- == is also called as?

- Loose comparison

- Strict comparison

- Inequality

Answer: Inequality

- Px, pt, cm are examples for _____ measurement usints.

- Relative

- Absolute

- Deterministic

- Undeterministic

Answer: Absolute

- The function parameters can have values predefined in them. True or false?

- True

- False

Answer: False

- Which css property will be used to change the font type?

- Font

- Font-face

- Font-family

- Font-type

Answer: Font-family

- The primary and secondary axis in a flexbox as a column are?

- Alignitems, justify content

- Justify content, align items

- Justify items, align content

- Align content, justify content

Answer: Justify content, align items

SECTION – II (5 * 1 = 5)

- What does HTML and CSS stand for?

Answer: HTML stands for HyperText Markup Language and CSS stands for Cascading Style Sheet.

- Write the html code for linking "style.css" file using external css.

Answer: <link rel="stylesheet" type="text/css" href="style.css" />

- Write a multiline comment that states "This is a mid term exam. I am learning Javascript" in several lines.

Answer: /* This is a mid term exam. I am learning Javascript

This is a mid term exam. I am learning Javascript

This is a mid term exam. I am learning Javascript

This is a mid term exam. I am learning Javascript

 */

- Write a CSS snippet to create a div with three major box model properties.

Answer: div {

 width: 310px;

```css
  border: 20px Red;

  padding: 60px;

  margin: 25px;

}
```

- Write a JS snippet to declare a const variable and print it in console.

Answer: To declare a const variable - const CONSTANT_NAME = value;

To print it in console - console.log();

SECTION – III (10 * 2 = 20)

- Write a JS snippet to determine if the current year is leap year or not.

Answer:
```js
function leapyear(year)

{

return (year % 100 === 0) ? (year % 400 === 0) : (year % 4 === 0);

}

console.log(leapyear(2020));

console.log(leapyear(2014));

console.log(leapyear(1994));
```

- Write a JS program to determine if a given number is a prime number. If yes display "Prime" else display "Not a prime"

Amswer:
```js
function test_prime(n)

{

 if (n===1)

 {

   return Prime;

 }

 else if(n === 2)

 {

   return Not a prime;
```

```
    }else
    {
      for(var x = 2; x < n; x++)
      {
        if(n % x === 0)
        {
          return Not a prime;
        }
      }
      return Prime;
    }
}
console.log(test_prime());
```

•   Write a JS program to find the largest of two numbers using functions. Use parametrs and return statements.

Answer:
```
<body>
  <div id="output"></div>

  <script>
    function largest(a, b) {
      if (a > b) {
        return a + " is greater";
      } else {
        return b + " is greater";
      }
    }
    var num1 = parseInt("Please enter a number");
    var num2 = parseInt("Please enter a number");
```

document.getElementById("output").textContent = largest(num1, num2);

  </script

</body>

• Write a HTML file that has one <h1>, a couple of <p> an ordered list and wrap all inside a <section> tag.

Answer:<!DOCTYPE>

<html>

<head>

<title>EXAM</title>

</head>

<body>

<section>

<h1>MIDTERM</h1>

<p1>Today is your midterm exam and you have 45 minutes for prepration</p1>

<p2>okay guys your time is over now. please start the exam.</p2>

  Javascript, HTML, CSS, Java

  Box model, javascript

<section>

</body>

</html>

• Write a CSS for the html file in Q4. The two <p> tags should have different background color. USe hex codes only. The <ol> should have a list style type of roman numerals. The <section> should have a dashed border of red color.

Answer: <!DOCTYPE>

<html>

<head>

<style>

p1{

```
color:blue;

background-color:red;

}

p2{

color:red;

background-color:blue;

}


</style>

</head>

<body>

<h1>MIDTERM</h1>

<p1>Today is your midterm exam and you have 45 minutes for prepration</p1>

<p2>okay guys your time is over now. please start the exam.</p2>

<ol> type="i">

  <li>Javascript, HTML, CSS, Java</li>

  <li>Box model, javascript</li>

</ol>


</body>

</html>
```

• Write a simple code that has three <div> with three different background color. Set the height and width to 100px and 100px. Use flexbox to display them as.

• Space-evenly

• Flex-end.

Answer:
```
<style>

  .div-1 {

    background-color: red;

  }
```

```css
    .div-2 {

        background-color: yellow;

    }


    .div-3 {

        background-color: blue;

    }
</style>
```

```html
<body>

    <div class="div-1">  HTML </div>

    <div class="div-2">  CSS </div>

    <div class="div-3">  JavaScript </div>

</body>
```

•   Write a JS program that accepts an array of four numbers. (1, 2, 3 and 4)

•   Write a for loop that inserts the next four number at the end of the array)

•   Write a JS program to accept the string " This is a mid term exam! " as input.

•   Remove trailing spaces.

•   Use length to display the length of string

•   Retrieve the word "exam" and store in a variable called substring.

•   Write the CSS code for a <p> tag. Change the font type, line height and the space amongst the characters.

Answer: <p> style = "line-height:2.5"

"Font-family :cursive*

"Letter-spacing: normal"</p>

•   Write a JS program to display "hello" 10 times using do..while loop. Use continue when loop statement reaches value of 5.

Answer: <script type = "text/javascript">

```
var i;

for (i = 0; i < 10; i++)
{
   document.write("Hello World!\n");
}
</script>
```

SECTION – IV (3 * 5 = 15)

•   Write a JS program that accepts two numbers as input, say start and end. Pass the two numbers as paramters to the function "prime". Display all the numbers between the range that are prime.

•   Write a JS program that accepts a string as input. Write a program to check if the string is a palindrome or not.

•   Write a HTML and CSS file using bootstrap to display a <nav> bar with atleast four nav elements and one nav brand. IT should be responsive and should have a hamburger icon when minimised,

STUDENT NAME: Lakhan Kumar

POINTS SCORED: