



COMSATS UNIVERSITY ISLAMABAD

Islamabad Campus

Mid Exam

Class: BSE-6 / BCS 5-A/B Date: November 19, 2021

Instructors: Mr. Waseem Abbas / Mr. Farooq Azam Course: CSC 336-Web Technologies

Total Time: 90 Minutes Max Marks: 25

Question # 1 [CLO-1]: [5-Marks]

- 1.a Discuss the root causes for poor design of web apps. (1)
- 1.b Categorize the web apps w.r.t development history and complexity. (2)
- 1.c N-layer web architecture is more suitable for demanding applications, Briefly discuss the layers and components of N-Layer architecture that helps to make complex applications/business processes accessed by legacy systems. (2)

Question # 2 [CLO-2]: [10-Marks]

- 2.a What are the various ways of using CSS in an HTML page? (2)
- 2.b Discuss Pseudo-Class selectors with the help of an example. (3)
- 2.c Apply 3 css style rules for following HTML snippet. (3)

defined special an element style an element and unified looks it an element when focused

```
<p class="poetry" id="poet1">
Twis brillig, and the slithy toves
Did gyre and gimble in the wabe
All mimsy were the borogoves
And the mome raths outgrabe. </p>
```

- 2.d Create a table row with two table headers. The two table headers should have the value "Name" and "Age".
The next row should contain your name and age.
Add the caption to this table as "my-profile" (2)

Question # 3 [CLO-3]: [10-Marks]

- 3.a Write a JS sum method which will work properly when invoked using either syntax. (3)
- ```
console.log(sum(2,3)); // Outputs 5
console.log(sum(2,3,5)); //Outputs 10
console.log(sum(2,3,5,10)); //Outputs 20
```

- 3.b Briefly discuss the difference between Var, Let and Const in JS with the help of an example. (2)

3.c Write JS code to swap the pictures of following image tags

(2)

```


```

3.d Write JS Code that change the Text of all paragraph tags with class="highlight" to "Highlighted Paragraph".

(3)

```
<body>
 <h1 class="highlight">Welcome</h1>
 <p class="main">This is Paragraph 1</p>
 <p class="highlight"> This is Paragraph 2</p>
 <p class="highlight"> This is Paragraph 3</p>
</body>
```