COMSATS University Islamabad
Abbottabad Campus

Department of Computer Science

MIDTERM EXAMINATION --- FALL 2022

Class: _____ Date: 18-11-2022

Subject: Web Technologies Instructor: Muhammad Tariq

Total Time Allowed: 1.5 hours Max Marks: 50

Name:_____ Registration #_____

SECTION-A

(Time allowed: 20 minutes) (Marks: 15) (CLO-1)

Q1. Identify and encircle the correct answer for the given statements.

1. _____elements always start on a new line.

a. inline b. block-level c. text d. animation

2. The website content is written in the _____ section of the HTML file.

a. body b. head c. title d. meta

3. In `<img src="img_girl.jpg" width="500">`, src and width are _____

a. links b. properties c. source d. attributes

4. ____is used to increase the text size of HTML elements.

a. height b. text-size c. headings d. font-size

5. ____connects the external style to the HTML file.

a. style b. <style> c. link d. None of these

6. In Web , ___ selector has the highest specificity

a. id b. class c. internal style d. inline style

7. In a:hover {color: black}, **:hover** is a _____ selector.

a. element b. Pseudo-class c. Pseudo-element d. class

8. ___HTML tag is used to render a checkbox.

a. checkbox b. form c. input d. type

9. What is the size of the paragraph element in pixels if it is set to 2rem?

a. 28px b. 32px c. 2px d. 200px

10. By default, the position of all HTML elements is_____

a. fixed b. relative c. static d. absolute

11. _____must be installed on your computer before you start coding React applications

a. create-react-app b. React JS c. Node JS d. cmd

12. Package folder is created in _____ after its installation in React.

a. src b. public c. node_modules d. Package.json

13. All dependencies used in React application can be viewed in_____

a. App.js b. index.js c. Package.json d. components

14. The public folder in React configuration is important because it holds_____

a. App.js b. index.html c. index.js d. icons

15. Components are created in _____ folder of React configuration environment.

a. node_modules b. src c. public d. index.js

SECTION-B

(Marks: 5 + 10 = 15) (CLO-2)

Q1. Explain the following questions:

a. What are a controlled element and a controlled component? Provide an example to justify your answer.
b. Differentiate between the following terminologies with the help of examples.
    1. BrowserRouter and Routes
    2. Hyperlink and Link
    3. class and className
    4. state and props
    5. import and export

SECTION-C

(Marks: 14 + 6 = 20) (CLO-3)

Q1. Analyze the requirements in the following questions to create/rewrite components.

a. Create a component called applicants by analyzing the following requirements:

1. Create functional component
2. Holds an array of three objects containing id, program, and hostel
3. Populate the array data in a table
4. handleDelete method is called on clicking the Delete button to delete the entry based on id

Student ID	Program	Hostel	Operation
			Delete

b. Rewrite the given code to apply inline, internal, and external CSS.

```
function Colors(){
    return <p>Color me in 3 ways!</p>
}
```