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Daffodil International University
Faculty of Science & Technology
Department of Software Engineering
Course Code: SE 235 Course Title: Web & Desktop Programming
Quiz 2 – Section C

Total Marks: 15 Time: 40 minutes

Question 1: CSS Flexbox (5 Marks)

Consider the following HTML and CSS code. Draw or describe the final layout of the three boxes and explain how the Flexbox properties affect their positions.

```
<div class="container">
    <div>A</div>
    <div>B</div>
    <div>C</div>
</div>

.container {
    display: flex;
    flex-direction: row-reverse;
    justify-content: space-evenly;
    align-items: flex-start;
    height: 220px;
    width: 640px;
}

.container div {
    width: 70px;
    height: 40px;
}
```

Question 2: CSS Grid (5 Marks)

Analyze the following HTML and CSS code. Draw the resulting grid layout, showing the position of each item, and explain how the column sizes and grid-column property affect the layout.

```
<div class="grid-container">
    <div>A</div>
    <div>B</div>
    <div>C</div>
    <div>D</div>
    <div>E</div>
</div>

.grid-container {
    display: grid;
    grid-template-columns: 1fr 1fr 2fr;
    gap: 12px;
}

.grid-container div:nth-child(4) {
    grid-column: span 2;
}
```

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Question 3: JavaScript DOM Manipulation (5 Marks)

Analyze the following HTML and JavaScript code. Determine the final heading and paragraph contents after the button is clicked, and explain which elements are modified by the DOM operations.

```
<h2 class="heading">Hello</h2>

<p class="info">HTML</p>
<p class="info">CSS</p>
<p class="info">JavaScript</p>

<button onclick="changeContent()">Update</button>

<script>
    function changeContent() {
        document.getElementsByTagName("h2")[0].innerHTML =
            "Responsive Design";

        let items = document.getElementsByClassName("info");

        items[0].innerHTML = "Bootstrap";
        items[1].innerHTML = "Media Queries";
    }
</script>
```

— End of Quiz —