

**Section A – Multiple Choice (1 mark each, 16 total)**

1. Which class is a responsive container?
  - a. .container-fixed
  - b. .container-fluid
  - c. .box
  - d. .box-fluid
2. How many columns are in the Bootstrap grid?
  - a. 3
  - b. 6
  - c. 9
  - d. 12
3. Which class shapes an image into a circle
  - a. .img-rounded
  - b. .img-round
  - c. .img-circle
  - d. .img-thumbnail
4. Which class creates a big box?
  - a. .bigbox
  - b. .jumbobox
  - c. .container
  - d. .jumbotron
5. Which class make a button “dangerous”?
  - a. .btn-primary
  - b. .btn-warning
  - c. .btn-danger
  - d. .btn-error
6. Which class indicates a dropdown menu?
  - a. .select
  - b. .dropdown
  - c. .dropdown-list
  - d. .dropup
7. How do I add a page header?
  - a. <div class=“page-header”>
  - b. <div class=“header”>
  - c. <div class=“head”>
  - d. <div class=“top”>
8. How do I render code in HTML?
  - a. <preformatted>
  - b. <program>
  - c. <code>
  - d. <small>
9. How do I render small text in HTML?
  - a. <preformatted>
  - b. <program>
  - c. <code>
  - d. <small>
10. In GitHub, a selection of changes is called a?
  - a. Commit

- b. Save
- c. Change
- d. Pull Request

11. To add a line separating things in a dropdown, which class do I use?
  - a. .separator
  - b. .divider
  - c. .dropdown-divider
  - d. .dropdown-separator
12. In a dropdown, we can switch the direction of the dropdown by using
  - a. .dropdown-reverse
  - b. .dropup
  - c. .dropdown-menu
  - d. .dropdown-header
13. How are form inputs grouped in Bootstrap?
  - a. <fieldset>
  - b. <div class=“fieldset”>
  - c. <div class=“form-group”>
  - d. <form-group>
14. In JavaScript, to set the text of an element, we use?
  - a. innerHTML
  - b. HTML
  - c. Text
  - d. Font
15. In JavaScript, we can select HTML elements by?
  - a. Font type
  - b. Id
  - c. Text
  - d. Style
16. Through which attribute can a button call a JavaScript function?
  - a. return
  - b. identifier
  - c. class
  - d. onClick

**Section B – Fill in the Blank (1 mark each, 14 total)**

Bootstrap supports 4 different screen sizes, including \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_. Bootstrap columns must add up to \_\_\_\_\_. To create smaller and lighter text, we use the \_\_\_\_\_ tag. To make images have a rounded border, we use the \_\_\_\_\_ class. Bootstrap forms should have the attribute \_\_\_\_\_ = \_\_\_\_\_. A Bootstrap row is denoted by class = \_\_\_\_\_.

\_\_\_\_\_. A Bootstrap column is denoted by class = \_\_\_\_\_. In JavaScript, variables are declared using the keyword \_\_\_\_\_. Every JavaScript statement must end with a \_\_\_\_\_. JavaScript code may be grouped in blocks called \_\_\_\_\_.

### Section C – Full Solution (20 marks total)

1. Create a layout using Bootstrap to the following standard (8 marks)
  - a. Top navigation bar with 3 links
  - b. A sidebar taking up 33% of the page
  - c. A content section taking up 66%
  - d. A full footer

2. Create a dropdown menu in Bootstrap with 3 sections of 2 links each (8 marks)

3. Fill in the following JavaScript function to make a lightbulb flash (4 marks)

```
function flashbulb() {  
    // Turn lightbulb on  
  
    Thread.sleep(1000);  
  
    // Turn lightbulb off  
  
}
```