**Chapter 10: How to work with forms and data validation**

**Murach's JavaScript and jQuery (4th Edition)**

**MULTIPLE CHOICE**

1. What does an HTML5 type attribute for an input element do?

| a. | It validates the data entered by the user. |
| --- | --- |
| b. | It indicates the type of data the user should enter in the control. |
| c. | It indicates the type of control the browser should display to the user. |
| d. | It makes working with CSS easier. |

2. What does an input element with a type attribute of “email” provide that an input element with a type of “text” doesn’t provide?

| a. | Supports the autofocus attribute. |
| --- | --- |
| b. | Supports the placeholder attribute. |
| c. | Causes the field to be automatically validated by the browser. |
| d. | Provides for autocompletion. |

3. Which of the following HTML5 attributes is used for data validation?

| a. | **pattern** | c. | **action** |
| --- | --- | --- | --- |
| b. | **autofocus** | d. | **placeholder** |

4. Which of the following can you NOT format using CSS3 pseudo-classes?

| a. | valid fields | c. | required fields |
| --- | --- | --- | --- |
| b. | invalid fields | d. | optional fields |

5. Which of the following methods removes all the spaces before and after an entry in a text box?

| a. | val() | c. | text() |
| --- | --- | --- | --- |
| b. | trim() | d. | select() |

6. Which of the following is NOT a jQuery selector for working with forms and controls?

| a. | :hidden | c. | :text |
| --- | --- | --- | --- |
| b. | :disabled | d. | :submit |

7. The jQuery features for forms and controls let you do all but one of the following. Which one is it?

| a. | set the values of error messages |
| --- | --- |
| b. | get the value in a text box |
| c. | select the check boxes that are checked |
| d. | validate specific types of entries in text boxes |

8. You can use a handler for the submit event of a form to validate data when the user clicks a

| a. | regular button | c. | submit button |
| --- | --- | --- | --- |
| b. | radio button | d. | link |

9. Which of the following coding sequences can be used to validate the data on a form and submit it to the server?

| a. | Within the click() event handler of a regular button, validate the data and then issue the submit() method of the form if the data is valid. |
| --- | --- |
| b. | Within the click() event handler of a regular button, validate the data and then issue the reset() method of the form if the data is invalid. |
| c. | Within the click() event handler of a submit button, validate the data and then issue the preventDefault() method of the form if the data is valid. |
| d. | Within the click() event handler of a submit button, validate the data and then issue the reset() method of the form if the data is valid. |

**Code example 10-1**

**$(document).ready( () => {**

**$("#contact\_me").change( () => {**

**if ($("#contact\_me").attr("checked")) {**

**$(":radio").attr("disabled", false);**

**} else {**

**$(":radio").attr("disabled", true);**

**}**

**});**

**});**

10. (Refer to code example 10-1) What does this code do?

| a. | It disables or enables a specific radio button when an element is checked or unchecked. |
| --- | --- |
| b. | It disables or enables all radio buttons when an element is checked or unchecked. |
| c. | It disables or enables a specific check box when an element is checked or unchecked. |
| d. | It disables or enables all check boxes when an element is checked or unchecked. |

11. (Refer to code example 10-1) What do the jQuery selectors in this code select?

| a. | an individual element by id only |
| --- | --- |
| b. | all radio buttons only |
| c. | an individual element by id and all radio buttons |
| d. | an individual element by id and disabled radio buttons |

**Code example 10-2**

**$(document).ready( () => {**

**$("#member\_form").submit( event => {**

**let isValid = true;**

**...**

**const password = $("#password").val().trim();**

**if (password == "") {**

**$("#password").next().text("This field is required.");**

**isValid = false;**

**} else if ( password.length < 6) {**

**$("#password").next().text("Must be 6 or more characters.");**

**isValid = false;**

**} else {**

**$("#password").next().text("");**

**}**

**$("#password").val(password);**

**...**

**if (isValid == false) {**

**event.preventDefault();**

**}**

**});**

**});**

12. (Refer to code example 10-2) What does the preventDefault() method in this code do?

| a. | It cancels the change event of the form. |
| --- | --- |
| b. | It cancels the submit event of the form. |
| c. | It triggers the change event of the form. |
| d. | It triggers the submit event of the form. |

13. (Refer to code example 10-2) Why is the following line of code necessary after the if-else statement?

**$("#password").val(password);**

| a. | The val() method removes the password entered by the user, so this code displays the original password. |
| --- | --- |
| b. | The next() method replaces the password entered by the user, so this code displays the original password. |
| c. | The text() method replaces the password entered by the user, so this code displays the original password. |
| d. | The trim() method removes extra spaces entered by the user, so this code displays the trimmed password. |

14. Which of the following methods is NOT one of the methods that trigger events?

| a. | focus() | c. | leave() |
| --- | --- | --- | --- |
| b. | change() | d. | select() |

15. In the following code, what does the line of code in the else clause do?

**$(document).ready( () => {**

**$("#join\_list").click( () => { // join\_list is a regular button**

**if ( $("email\_address").val() == "") {**

**alert("Please enter an email address.");**

**} else {**

**$("#email\_form").submit();**

**}**

**});**

**});**

| a. | It handles the submit event of the form with an id of “email\_form”. |
| --- | --- |
| b. | It triggers the submit event of the form with an id of “email\_form”. |
| c. | It handles the click event of the button with an id of “join\_list”. |
| d. | It triggers the click event of the button with an id of “join\_list”. |