**Chapter 2: How to develop a single-page MVC web app**

**Murach's ASP.NET Core MVC**

**MULTIPLE CHOICE**

1. When you use Visual Studio to start a project, you can generate some starting folders and files for an ASP.NET Core MVC web app by selecting a template named

| a. | Empty |
| --- | --- |
| b. | API |
| c. | Web Application |
| d. | Web Application (Model-View-Controller) |

2. Which of the following lists the names of six folders that are included in an MVC web app by convention?

| a. | Root, Controllers, Models, Views, Home, Shared |
| --- | --- |
| b. | wwwroot, Controllers, Models, Views, Home, Shared |
| c. | wwwroot, Model, View, Controller, Home, Temp |
| d. | wwwroot, HomeController, HomeModel, Views, Home, Shared |

**Code Example 2-1**

**public class HomeController : Controller**

**{**

**public IActionResult Index()**

**{**

**ViewBag.Description = "Gibson Les Paul";**

**ViewBag.Price = 699.99;**

**return View();**

**}**

**}**

3. **Refer to Code Example 2-1.** Which one of the following is a property of the HomeController class?

| a. | Index() | c. | View() |
| --- | --- | --- | --- |
| b. | ViewBag | d. | Controller |

4. **Refer to Code Example 2-1.** Which one of the following is an action of the HomeController class?

| a. | Index() | c. | View() |
| --- | --- | --- | --- |
| b. | ViewBag | d. | IActionResult |

5. **Refer to Code Example 2-1.** Which file stores the view that’s displayed by the Index() method?

| a. | Views/Index/Home.cshtml | c. | Views/Index.cshtml |
| --- | --- | --- | --- |
| b. | Views/Home/Index.cshtml | d. | Home/Index/View.cshtml |

6. What is the following code called?

**@{**

**Layout = null;**

**}**

| a. | A Razor expression | c. | A Razor view |
| --- | --- | --- | --- |
| b. | A Razor layout | d. | A Razor code block |

7. What does the following code use to display the description that’s stored in the ViewBag?

**<p>Description: @ViewBag.Description</p>**

| a. | A Razor expression | c. | A Razor view |
| --- | --- | --- | --- |
| b. | A Razor layout | d. | A Razor code block |

8. In the Startup.cs file, which method contains the code that configures the HTTP request and response pipeline?

| a. | Index() | c. | Configure() |
| --- | --- | --- | --- |
| b. | View() | d. | ConfigureServices() |

9. A model is a

| a. | regular C# class that stores the data for an app |
| --- | --- |
| b. | C# class that inherits the Model class |
| c. | Razor file that defines the data for an app |
| d. | Razor file that handles HTTP requests |

10. A controller is a

| a. | regular C# class that defines the data for an app |
| --- | --- |
| b. | C# class that inherits the Controller class |
| c. | Razor file that defines the data for an app |
| d. | Razor file that handles HTTP requests |

11. If the following code is in a Razor view imports file, what does it do?

**@using GuitarShop.Models**

**@addTagHelper \*, Microsoft.AspNetCore.Mvc.TagHelpers**

| a. | It makes it easier to use the model classes in the GuitarShop namespace. |
| --- | --- |
| b. | It makes it easier to use the tag helpers that are available from ASP.NET Core MVC. |
| c. | It helps views display more quickly when they start. |
| d. | All of the above |
| e. | A and B only |

12. You can create a strongly-typed view by using the @model directive to specify a model type and by using the asp-for tag helper to bind HTML elements to

| a. | the actions of the controller |
| --- | --- |
| b. | the properties of the controller |
| c. | the actions of the model object |
| d. | the properties of the model object |

13. How do you code an action method that handles an HTTP POST request but not an HTTP GET request?

| a. | Use the Startup.cs file to configure the middleware for HTTP POST requests |
| --- | --- |
| b. | Code the HttpPost attribute above the action method |
| c. | Inherit the PostController class |
| d. | Pass the model object to the View() method |

14. A CSS style sheet

| a. | lets you specify the default Razor layout |
| --- | --- |
| b. | provides a way to store HTML elements that are unique to a web page |
| c. | provides a way to store CSS formatting for multiple pages in a single file |
| d. | provides a way to store HTML elements for multiple pages in a single file |

15. A Razor layout

| a. | lets you specify the default Razor layout |
| --- | --- |
| b. | provides a way to store HTML elements that are unique to a web page |
| c. | provides a way to store CSS formatting for multiple pages in a single file |
| d. | provides a way to store HTML elements for multiple pages in a single file |

16. A Razor view start

| a. | lets you specify the default Razor layout |
| --- | --- |
| b. | provides a way to store HTML elements that are unique to a web page |
| c. | provides a way to store CSS formatting for multiple pages in a single file |
| d. | provides a way to store HTML elements for multiple pages in a single file |

17. Which of the following is an attribute that’s used to validate data?

| a. | Required | c. | HttpGet |
| --- | --- | --- | --- |
| b. | ModelState | d. | asp-for |

18. If the following is coded above a property in a model class, what does it do?

**[Range(1, 10, ErrorMessage = "Please enter a number between 1 and 10.")]**

| a. | It prevents the code from compiling. |
| --- | --- |
| b. | It binds the property to an HTML element in the view. |
| c. | It uses the default error message if the property isn’t within the specified range. |
| d. | It specifies a user-friendly error message if the property isn’t within the specified range. |

19. In a controller, which of the following statements checks whether the data in the model is valid?

| a. | **if (model.IsValid) {...}** |
| --- | --- |
| b. | **if (Validate(model)) {...}** |
| c. | **if (ModelState.IsValid) {...}** |
| d. | **if (ModelData.IsValid()) {...}** |

20. In a view, which of the following tag helpers displays a summary of all validation errors that are stored in the model?

| a. | **asp-action="All"** |
| --- | --- |
| b. | **asp-action="ValidationSummary"** |
| c. | **asp-validation-summary="ModelState"** |
| d. | **asp-validation-summary="All"** |