

IT Specialist: HTML 5 App Development Certification Study Guide

1. A developer wants to make all images with the sepia class 80%. Fill in the missing code to fulfill the needs for the class.

Scenario: .sepia {

Filter: ____ ; }

- a. Sepia (80)
 - b. Sepia (80%)
 - c. Sepia (20)
 - d. Sepia (20%)
2. Arrange, in order the stage of application lifecycle management. Not every stage will be used.

Step 1: Plan

Step 2: Design

Step 3: Develop

Step 4: Test

Step 5: Deploy

Step 6: maintain

3. Refer to this JavaScript code excerpt:

Return this.Calculation();

What does this Calculation represent?

- a. Inheritance
- b. Instantiation

- c. Method
 - d. Property
4. Which three commands are passed through the transformation layer to the output on the canvas display? (Choose three)
- a. Shrink
 - b. Translate
 - c. Flip
 - d. Scale
 - e. Rotate
 - f. Skew
5. Which of the following is the correct usage for the <time> tag?
- a. All of these are correct
 - b. The current time is <time datetime="2012-1-1T12:54:22Z">12:54</time>
 - c. The current time is <time value="getTime();" />
 - d. The current time is <time currenttime />
6. You are developing a new blog page and want to organize each post to stand alone.
- Which HTML5 section tag appropriate for organizing blog post?
- a. <blog>
 - b. <post>
 - c. <hgroup>
 - d. <article>
7. Which three of the following are true of Browser Cookies? (Choose three)
- a. Cookies can be created and stored with JavaScript

- b. Cookies set by one site can be retrieved by any other website
 - c. Cookies can be updated by the site that set them
 - d. Cookies are used to store data on the user's computer
 - e. Cookies are considered malware and should be avoided
8. Which three of the following are CSS gradient properties? (Choose three)
- a. Transparent-gradient
 - b. Radial-gradient
 - c. Repeating-radial-gradient
 - d. Opaque-gradient
 - e. Optical-gradient
 - f. Linear-gradient
9. Which of the following is the correct usage for the <figure> and <figcaption> tags?
- a. `<figure src="fig1.jpg" alt="Building Plans Fig. 1" />`
`<figcaption>Fig. 1 – Building plans for the new construction project downtown.`
`</figcaption>`
 - b. `<figure>`
``
`<figcaption>Fig. 1 – Building plans for the new construction project downtown.`
`</figcaption>`
`</figure>`
 - c. `<figure>`
``
`</figure>`

`<figcaption>Fig. 1 – Building plans for the new construction project downtown.`

`</figcaption>`

- d. `<img src= “fig1.jpg” alt= “Building Plans Fig. 1”`

`<figcaption>Fig. 1 – Building plans for the new construction project downtown.`

`</figcaption>`

``

10. When using the `<canvas>` tag, which technique is used to draw the graphic to the page?

- a. None of these
- b. A scripting language (such as JavaScript) is used.
- c. Only server-side code can be used to draw on the canvas element
- d. The canvas element has native support for geometric shapes, gradients and fill colors; it does not require any other code to draw these.

11. Given the following code:

```
<form oninput= “ ”>
```

```
<input type= “number” name= “a” value= “1”>
```

```
/ <input type= “number” name= “b” value= “0”>
```

```
= <output name= “x” for = “a b”> </output>
```

```
</form>
```

What is the correct syntax for the form oninput event?

- a. `Oninput= “x= a/b”`
- b. `Oninputer= “a.value / b.value”`
- c. `Oninput= “a/b”`
- d. `Oninput = “x.value=a.value/b.value`

12. Which CSS style positions an element relative to the browser window?

- a. Position: static;
- b. Position: absolute;
- c. Position: relative;
- d. Position: fixed

13. Which of the following is a JavaScript event capable of executing a function when the device pointer hovers over a page element?

- a. Onmousein
- b. Onmouseout
- c. Onmousedown
- d. Onmouseover

14. Which of the following functions is used to control timing in JavaScript Animation?

- a. Timer()
- b. None of these
- c. Keyframes()
- d. setTimeout()

15. Which of the following is the correct syntax for a pattern attribute on an input tag.

- a. None of these
- b. Pattern password
- c. Pattern= "password"
- d. Pattern= "[A-z0-9]"

16. HTML5 includes which two history object methods to persist state information? (choose two)

- a. replaceState
 - b. pushState
 - c. pageHistory
 - d. pageState
 - e. persist
17. Which one of the following tags has been deprecated in HTML5?
- a. <small>
 - b. <acronym>
 - c.
 - d. All of these are correct
18. You are using JavaScript to access a client-side database. Which two JavaScript methods will insert data? (Choose two)
- a. Add()
 - b. Load()
 - c. Insert()
 - d. Put()
 - e. Get()
19. What is the main purpose of CSS in HTML5?
- a. CSS is used to determine style, positioning, and layout of a page.
 - b. CSS is used to define content on a page.
 - c. CSS is used for scripting on an HTML web Page.
 - d. None of these.
20. In JavaScript, what is the difference between a global versus a local variable?

- a. A local variable can only be used by the function that defines it.
- b. A local variable is available to any code inside the script tags.
- c. A global variable is transported to other JavaScript programs located on other web pages.
- d. A global variable is created inside a method or function.

21. Which three of the following are gestures by Microsoft? (Choose three)

- a. Double tap
- b. Click
- c. Slip
- d. Flick
- e. Twirl
- f. Drag

22. On a windows touch device, in Mouse Pointer mode, which gesture serves the same purpose as a zoom out?

- a. Hold
- b. Pinch
- c. Swipe
- d. Tap

23. Which is a primary goal of the application launcher icon?

- a. Makes the application easier to configure
- b. Help users discover the application in the android market or the Windows Store.
- c. Differentiates the application as paid vs free.
- d. Identifies the developer of the application

24. You are using JavaScript to build a website. You need some effects to create pop-ups, tooltips, and a slideshow. What resource contains several JavaScript effects to create animations?

- a. Flash library
- b. jQuery library
- c. Visual Studio
- d. Silverlight library

25. Which is a new HTML5 tag that applies a yellow background?

- a. <yellow>
- b. <background>
- c. <highlight>
- d. <mark>

26. What is the purpose of a CSS Exclusion?

- a. To exclude old code from the CSS file, without deleting it.
- b. To create an area on the page where the text will automatically wrap and format around.
- c. To exclude chunks of old content from a document using a strikeout.
- d. To exclude specified colors from appearing on the site, allowing for a fixed color scheme.

27. You are using the new HTML5 <video> tag. It doesn't seem to be working correctly.

What is required for the <video> tag to function?

- a. File must be in .mov format
- b. Height and width attribute

- c. High-performance video card.
 - d. Control attribute
28. Which is the correct way to nest tags in HTML5?
- a. `<p> <i>Hello, World ! </p> </i>`
 - b. `<p> <i>Hello, World ! </i> </p>`
 - c. `<p> <i>Hello, World ! </i> </p>`
 - d. `<p> <i>Hello, World ! </p> </i> `
29. Which of the following is a method to the Geolocation object?
- a. `gpsPosition()`
 - b. `getMyLocation()`
 - c. `getCurrentPosition()`
 - d. `gpsLocation()`
30. Which of the following properties can be used to change the content of a div tag, obtained earlier in the code through the use of `document.getElementById()`?
- a. `.content`
 - b. `.node.Value`
 - c. `.innerHTML`
 - d. `.HTML`
31. The JavaScript rotation gesture is captured as degrees of the finger rotation. What value is returned by counterclockwise rotation?
- a. Value of 0
 - b. Whole number equal to the degrees of rotation
 - c. Negative value

- d. Positive value

32. Which three of the following are JavaScript events? (Choose three)

- a. ondblClick()
- b. alert()
- c. onBlur()
- d. onModify()
- e. onMousePoint()
- f. onClick()

33. Which two of the following are correct uses of the <div> tag? (Choose two)

- a. To change the resolution of the display
- b. To add a drop shadow, background color, or a border to an item.
- c. To divide an object.
- d. To position multiple unrelated items as a group
- e. To contain copyright information at the bottom of the page

34. Which two of the following are in-memory resources that can be accessed by JavaScript?

(Choose two)

- a. Camera
- b. Calendar
- c. GPS
- d. Contact list
- e. Accelerometer

35. Which two tags help you avoid problems if a browser does not support JavaScript?

(Choose two)

- a. `<!—`
- b. `< - - //`
- c. `- - >`
- d. `<comment>`
- e. `// - - >`

36. Which of the following is the correct syntax to create a canvas object?

- a. `.getContext();`
- b. `.draw();`
- c. `.instantiate();`
- d. `.create ();`

37. Which of the following methods can be used to set data into localStorage?

- a. `localStorage.append(key, value);`
- b. `localStorage.insert(key, value);`
- c. `localStorage.addItem(key value);`
- d. `localStorage.setItem(key,value);`

38. Which three are benefits of using the new HTML5 `<audio>` and `<video>` tags? (Choose three)

- a. Elements can be controlled with scripting and CSS
- b. Not vendor-specific
- c. Backwards compatible with all browsers
- d. No additional plug-ins are required
- e. Supported by all codecs
- f. Provides live streaming

39. Several tags have been slightly changed with the release of HTML5. These changes are largely semantic, changing the reason to use the tag but not how it renders on the page.

What is the correct usage of the `` tag as of HTML5?

- a. This tag should be used when an item needs to be bolded but does not carry extra weight or importance. An example of this would be small heading, or emphasizing a keyword in an instruction (e.g. click **Submit** when you have completed this form).
- b. This tag has been deprecated, and should not be used.
- c. This tag should be used for important page headings instead of the old `<h1>` - `<h6>` tags.
- d. This tag should be used when an item requires extra emphasis, or has strong importance to the sentence in question (i.e. WARNING: Please be sure to uninstall the old version of our program **completely** before installing the latest release).

40. What new feature in HTML5 allows you to manage the state of a session?

- a. Manage State Tool
- b. Session Navigator
- c. Session Tracker
- d. History API

41. Which three methods are used for `localStorage` and `sessionStorage`? (Choose three)

- a. `retrieveItem()`
- b. `getItem()`;
- c. `synch()`;

- d. `setItem()`;
 - e. `refresh()`;
 - f. `removeItem()`;
42. What is the programming term for isolating a small piece (or pieces) of data from a larger item?
- a. None of these
 - b. Exclusion
 - c. Elimination
 - d. Parsing
43. JavaScript can send a request to a web server, which then returns data to be used on the page. Which technology enables JavaScript to send and receive this data?
- a. .ASP
 - b. Visual Basic
 - c. AJAX
 - d. .Net
44. A developer applies the following code to an `imgfilter` class:
- ```
.imgfilter{
 filter: sepia (75%) grayscale (100%);
}
```
- What will be the net result of the filter applied to any image using that class?
- a. The image will be mostly sepia with no gray
  - b. The image will be mostly sepia with some gray
  - c. The image will be completely gray

d. The image will be mostly gray with some sepia

45. Match each HTML form element with a situation in which the element is used.

Shows autocomplete options for entries = Datalist

Group related elements = fieldset

Shows a scalar measurement of a value = Meter

Define a group of related elements = Legend

Shows the result of a calculation = Output

46. Fill in the missing pieces of this code to create a class to calculate a total and then

instantiate said class. Not all code pieces will be used.

*Class total {*

\_\_\_\_\_ (*amount, salesTax*) {

*this.amount = amount;*

*this.salesTax = salesTax;*

*}*

*Get total() {*

*return this.calculation();*

*}*

*Calculation() {*

*return this.amount \* (1 + this.salesTax);*

*}*

*}*

*Let myTotal = \_\_\_\_\_*

*Total (1500, .075)*

- a. Constructor
- b. Initiator
- c. New
- d. Initialize

47. Which are two ways to store data using HTML5? (Choose two)

- a. appCache
- b. offlineStorage
- c. driveCache
- d. localStorage
- e. sessionStorage

48. Which new CSS3 feature enable the use of fonts that are not preloaded on the client PC?

- a. Font-free
- b. WOFF
- c. SVG
- d. Font-family

49. What is the purpose of the JSON API?

- a. Server-side graphical processing
- b. Graphical processing inside of the web browser
- c. Sending and receiving information from a web server through JavaScript
- d. Mathematical calculations in JavaScript

50. How does the new Flexible Box Model eliminate the need for using float?

- a. By allowing the browser to position the objects
- b. By positioning objects relative to a parent object

- c. By positioning all objects at the coordinates 0,0
- d. By providing a container positioned by properties assigned

51. What JavaScript object is used to read touch input?

- a. Canvas
- b. Touchlist
- c. Screen map
- d. Click map

52. If a developer needs to hold a piece of data in JavaScript for use later in a function, what would they use?

- a. Container
- b. Variable
- c. Copy
- d. Function

53. What does the blob interface in the file API provide access to?

- a. None of these
- b. The file's metadata
- c. Raw binary file data
- d. A list of all files in a given directory

54. What is the advantage of the AppCache?

- a. The AppCache stores files on the user's local machine, causing them to load faster when called again. This also allows for the cached files to be accessed while the user is offline.



- b. The AppCache is used to cache user information on the server to allow for faster server-side processing on subsequent user connections.
- c. The AppCache is used to distribute the entire application to multiple different systems.
- d. The AppCache allows the developers to share common code across projects, leading to faster development process due to not rewriting already existing method.

55. Which of the following is an example of a heading tag?

- a. <title>
- b. <important>
- c. <h1>
- d. <head>

56. What is the purpose of CSS Regions?

- a. To define a content area on that site that is style-able as a whole
- b. To allow content to flow from one predefined box to another
- c. To group related sections of code together for easy readability
- d. To define an area of an image that is clickable, like a link

57. When running an app created with HTML5 in the Windows Metro Style UI, which process hosts the application?

- a. Svchost.exe
- b. Explorer.exe
- c. WWAHost.exe
- d. Iexplorer.exe

58. What is the correct syntax to make an input field required (the user must fill out the field before submitting the form)?

- a. None of these
- b. `<input type = "text / required">`
- c. `<input type = "text" required = "true">`
- d. `<input type = "text" required>`

59. What does the `targetTouchllist` represent?

- a. A list of touch points that caused the current event to be fired.
- b. All touch points currently in contact with the screen, whose touchstart event occurred within the same node the current target element.
- c. A list of 'hot' areas on the screen which are touchable items, defined by a set of x and y coordinates.
- d. None of these

60. Which two of the following are numeric values required for a touch event? (Choose two)

- a. Location
- b. Scale
- c. Linear
- d. Pressure
- e. Rotation

61. Which two of the following are methods used for drawing / animation? (Choose two)

- a. `fillStyle();`
- b. `moveTo();`
- c. `motionTween();`

- d. `tweenElement();`
- e. `slideElement();`

62. How is an HTML5 touch-enabled application tested?

- a. In a BlackBox
- b. On a PC with Firefox and Google Chrome
- c. On as many touch-enabled hardware devices as possible
- d. On both an Android and iPhone

63. Which three file formats are supported by the `<audio>` element in HTML5? (Choose three)

- a. AVI
- b. MP3
- c. OGG
- d. AU
- e. WAV
- f. AIFF

64. Which three of the following are table attributes that have been deprecated in HTML5 (choose three)

- a. Align
- b. Shape
- c. Cell Padding
- d. Width
- e. Fill
- f. Circle

65. What new CSS3 properties can help when the words are too long to fit in the content container?

- a. Split
- b. Break
- c. Wrap
- d. Hyphenation

66. Which three of the following are hardware that can be accessed by an HTML5 application? (Choose three)

- a. Garage door opener
- b. Camera
- c. Accelerometer
- d. Car
- e. Thermometer
- f. GPS

67. You are writing some code for a hiking application that measures the hiker's distance and speed. Which built-in capability allows a developer to measure the movement of a mobile hardware device?

- a. In-memory resources
- b. GPS
- c. Webcam
- d. Accelerometer

68. Which three of the following describe the <aside> tag? (Choose three)

- a. This tag is used to postpone an action

- b. This tag is not used to define parenthetical statements
- c. This tag is used to define content that is tangentially related to the main context of the document (i.e., a sidebar in a book)
- d. This tag is used to define footnotes or annotations for a document
- e. This tag is used to define parenthetical statements
- f. This tag is used to delete content from a document

69. What is the difference between an App Package and an App Container?

- a. The App Package is the entire app packaged into a single file. This process is similar to archiving a larger number files to transfer them to another person. The App container is the memory space allocated at runtime for the app on the user's local machine.
- b. The App Package is the entire app packaged into a single file. This process is similar to archiving a larger number of files to transfer them to another person. The App Container is a directory within App Package that contains all resource files (scripts, stylesheets, images, etc.) for the app.
- c. App Package and App Container are synonyms.
- d. The App container is the entire app packaged into single file. This process is similar to archiving a large number of files to transfer them to another person. The App Package is the memory space allocated at runtime for the app the user's local machine.

70. What is jQuery?

- a. A language specifically written to access database
- b. A vector-graphic language

- c. Lightweight, “write less, do more” JavaScript Library
- d. Java-based query language

71. Which three of the following are included in the HTML5 family? (Choose three)

- a. Silverlight
- b. Java
- c. SVG
- d. CSS
- e. HTML Markup
- f. JavaScript

72. Which three methods return a node, or nodes, based on the arguments sent? (Choose three)

- a. `getElementByID();`
- b. `retrieveTagName();`
- c. `getElementByTagName();`
- d. `retrieveElementID();`
- e. `getElementByTagNameNS()`
- f. `retrieveID()`

73. what is the purpose of the “flex-flow” property?

- a. None of these
- b. Flex-flow defines the alignment of child boxes (top, center, bottom) within the flex box.
- c. Flex-flow allows the designer to set both the flex-direction and flex-wrap properties with single line of code.

- d. Flex-flow ONLY determines whether or not the child boxes will wrap to a new line upon running out of space.
74. You are developing graphics for a smartphone app using HTML5. The app will have real-time mathematical animations, and the number of objects could be many. Which tag should you use?
- a. <canvas>
  - b. <svg>
  - c. <object>
  - d. <translate>
75. Which of the following is the correct syntax to retrieve the physical location of the user's device?
- a. 

```
Var longitude = navigator.geolocation.getUserLong();
Var latitude = navigator.geolocation.getUserLat();
```
  - b. 

```
Navigator.geolocation.getCurrentPosition();
```
  - c. 

```
Var location [] = navigator.geolocation.getUserLocation();
```
  - d. 

```
Navigator.geolocation.getCurrentPosition (printMethod, errorMethod) ;
```
76. What is used to increase the size of the screen display?
- a. Slide
  - b. Flick
  - c. Pinch
  - d. Hold
77. How do developers properly add controls to an audio element?
- a. <audio controls= "controls">

- b. <audio control>
- c. <audio controls= “on”>
- d. <audio controls= “Play, Pause, Seeking, Volume”>

78. What is the benefit of Web Worker?

- a. Allows the developer to spawn background scripts that run simultaneously
- b. Limits the memory used by scripts
- c. Restricts scripts from running in the background
- d. Forces scripts to execute sequentially

79. Which is the correct method to define a block element as a grid?

- a. None of these
- b. Display: grid;
- c. Grid: true
- d. Show: grid;

80. Which two of the following can be read by the FileReader interface? (Choose two)

- a. File object
- b. File properties
- c. User data
- d. List of files
- e. Blob object

81. Which two are new HTML5 input types? (choose two)

- a. Date
- b. Maxlength
- c. Tel



- d. Autofocus
- e. Pattern

82. Which two of the following are JavaScript Touch Event Types?

- a. touchStart
- b. touchPan
- c. touchZoom
- d. touchEnd

83. If you pass a negative value to the rotated() method, what is the result?

- a. It rotates the element clockwise
- b. It flips the element into the mirrored position
- c. It rotates the element counter-clockwise
- d. It won't work.

84. You want to create a CSS style that will modify the strong tag to apply blue color and add 60% transparency. Which of the following code fragments will do this?

- a. `Strong {color: rgba(0%,0%,100%,40%); }`
- b. `Strong {color:rgba(#0000ff, 60%); }`
- c. `Strong { color: rgba(0,0,255, 0.40); }`
- d. `Strong {color: rgba(0, 0, 255, 60); }`

85. What is the correct syntax for a CSS comment?

- a. `#Comment Goes Here #`
- b. `/* Comment Goes Here */`
- c. `<!-- Comment Goes Here - - >`
- d. `// Comment Goes Here`

86. Which two of the following are new organization tags in HTML5? (choose two)

- a. <head>
- b. <body>
- c. <footer>
- d. <div>
- e. <section>

87. A project team has successfully planned a website with a client. Which step is the next step in the application lifecycle management stage?

- a. The project should be tested
- b. The project should be prototyped
- c. The project should be developed.
- d. The project should be designed

88. A group of which you are developing a website wants a form to have some field utilize the autocomplete feature when people fill out the form. Which HTML tag should you use for any field that needs this autocomplete feature?

- a. Datalist
- b. Input
- c. Select
- d. Fieldlist

89. What is the purpose of the poster attribute for a video tag?

- a. The poster attribute defines an image used in place of the video, until the video loads or the user hits play.
- b. The poster attribute is used to define the user who provided the video.

- c. The poster attribute which frame (an integer value) should be used as the image in place of the video, until the video loads or the user hits play.
- d. There is no poster attribute for the video tag. Poster is used to define a very large image on a webpage.

90. JavaScript is used to perform which three of the following tasks (choose three)

- a. Add dynamic functionality to a webpage
- b. Handle client-side calculations
- c. Add styling to a webpage
- d. Add interactive capabilities to a webpage
- e. Define content semantically on a page
- f. Replace all the features of Java

91. In JavaScript, a “pinchclose” gesture has a scale of \_\_\_\_\_.

- a. Less than 1.0
- b. Greater than 1.0
- c. Greater than 0
- d. Less than 0

92. You’ve develop an application for mobile devices. Now you need a launcher icon. Which

Microsoft application should you used to develop an launcher icon?

- a. PowerPoint
- b. Expression Design
- c. SilverLight
- d. Illustrator

93. What is a “launcher icon”?

- a. A graphic that takes the user to the developer's website
- b. A graphic of a rocket
- c. A link that launches to a graphic
- d. A graphic that represents an application on the device's home screen

94. Which two of the following are validation values for the Type attribute of the text input tag? (choose two)

- a. Location
- b. url
- c. block
- d. email
- e. phone

95. which two HTML 5 tags will format text to be important? (Choose two)

- a. <strong>
- b. < I >
- c. < p>
- d. < b >
- e. < em>

96. Which three functions are included in the Geolocation object? (Choose three)

- a. getCurrentPosition
- b. watchLocation
- c. ClearWatchPostition
- d. watchPosition
- e. getLocation

f. findLocation

97. which type of hardware device is typically used with the geolocation API?

- a. Microphone
- b. GPS
- c. Camera
- d. Tablet

98. Which of the following is important to understand when creating animations using JavaScript?

- a. Art
- b. Mathematics
- c. English
- d. History

99. In HTML5, how should you separate the content from the design?

- a. CSS
- b. < div > tag
- c. JavaScript
- d. < table > tag

100. Which two are new HTML5 form fields? (Choose two)

- a. Autofocus
- b. Autocomplete
- c. Progress
- d. Mark
- e. Output

101. Which two statements are true about positioning floated elements? (Choose two)

- a. The element can float up or down
- b. The element is positioned relative to the upper-left corner of the open window
- c. The element is positioned relative to its parent element
- d. The element is positioned relative to the upper-left corner of the browser
- e. The element can float right or left.

102. As part of the debugging process, a programmer will usually use a validator to test their code. What does this accomplish?

- a. A validator is used to debug any scripts on the page. The advantage of the validator is allowing the code to stop at preset break points, and the manual inspection of variable values.
- b. A validator checks over the page for any spelling or grammar errors in the content of the page, ignoring any markup.
- c. A validator is a testing environment used to validate the page visually. This allows the developer to catch any errors in the markup that will cause the page to render incorrectly.
- d. A validator checks the markup used on the page for any errors or problems in your code. It does not, however, provide an environment to test the code itself.

103. What are the three states of an HTML5 application? (Choose three)

- a. DataLink
- b. Transport
- c. Session
- d. Application

- e. Persist
  - f. Presentation
104. Which is the correct syntax to round the corners of an element?
- a. Border-radius: 15
  - b. Border-radius: 15px;
  - c. Boroder-roundness: 15px;
  - d. Border:radius15;
105. Which two tags will repeat an audio file after it finishes playing? (choose two)
- a. <audio src= "file.wav" loop>
  - b. <audio src= "file.wav" loop=loop">
  - c. <audio src= "file.wav" endless>
  - d. <audio src= "file.wav" repeat>
106. What is the purpose of the flexbox properties in CSS?
- a. To display an element as a flexbox, allowing its size and position to adjust with the size of the viewport.
  - b. To display an element as flexbox, allow it to be moved dynamically to any position on the page with very little code.
  - c. To display an element as flexbox, allowing the content of a paragraph element to wrap around adjacent images.
  - d. To display an element as a flexbox, allowing the user to drag the edges of the box in and out to change its size.
107. What is the purpose of a Web Worker?
- a. To handle complex calculations client-side

- b. None of these
  - c. To give the developer automatic code completion when coding in JavaScript
  - d. To allow code to run in multiple threads while the website still responds to user input.
108. You want to publish an application to the Microsoft store. What should you do first?
- a. Review the app requirements and developer agreement.
  - b. Choose and reserve your app name
  - c. Submit your app to the store
  - d. Write your app's description and take screenshots
109. What is the purpose of the multi-column layout property?
- a. None of these
  - b. To replace tables
  - c. To assist developers in creating multi-column designs for their websites
  - d. To display content that is contained within one block element in a multi-column view when the page loads.
110. What is the primary difference between localStorage and sessionStorage in HTML5?
- a. localStorage is stored without a time limit, whereas sessionStorage is only available within the user's current session.
  - b. localStorage applies to only one user, sessionStorage applies to all users of the application.



- c. localStorage applies to only one user, sessionStorage applies to all concurrent users.
  - d. localStorage is stored on the server, sessionsStorage is stored on the user's local machine as a cookie.
111. You are creating a web page and need to hide an element. Which display property will hide an element on a web page?
- a. Display: hide
  - b. Display: inline
  - c. Display: block
  - d. Display: none
112. Which two of the following are correct syntax to hide a button using JavaScript with jQuery? (choose two)
- a. `getButton(name);`
  - b. `showButton(id)`
  - c. `retrieveElementBy(id);`
  - d. `hideButton(name);`
  - e. `document.getElementById(id).style.display= "none";`
  - f. `getElementBy(name);`
  - g. `document.getElementById(id).hide();`
113. which box model establishes content alignment, direction, and orientation?
- a. Fixed box model
  - b. Flexible box model
  - c. Parent box model

- d. Inheritance box model
114. Which element used for organizing web content has been deprecated in HTML5?
- a. Table
  - b. List
  - c. Head
  - d. Body
115. Which video formats are support by the video tag?
- a. Ogg, mpeg
  - b. The supported formats are controlled by the User Agent (web browser), not controlled by video tag specification.
  - c. Mp4, mp3, wma
  - d. Webm, ogg, avi
116. Which two of the following is true of SVG (Scalable Vector Graphics)? (choose two)
- a. SVGs static and cannot be animated
  - b. SVGs cannot be directly embedded on a page
  - c. SVGs images are capable of being animated
  - d. SVGs are created in JavaScript, so require larger bandwidth than an actual file
  - e. SVGs are created purely in XML, and so require very little bandwidth compare to an actual file
117. How can HTML5 enhance the user experience on tablets and mobile devices?
- a. No dependency on browser plug-ins
  - b. It uses Microsoft Silverlight

- c. Fully utilizes flash to run on all mobile devices
  - d. Doesn't use a browser
118. Which two are new CSS3 properties that allow developers to display text into columns without using tables? (choose two)
- a. Multi-column
  - b. Region
  - c. Section
  - d. List
  - e. Table
119. What is the correct syntax to use a non-web safe font on your site?
- a. All fonts used on a website must be web safe
  - b. 

```
.font {

 font-face-src: url("Link to font"); }
```
  - c. 

```
@font-face {

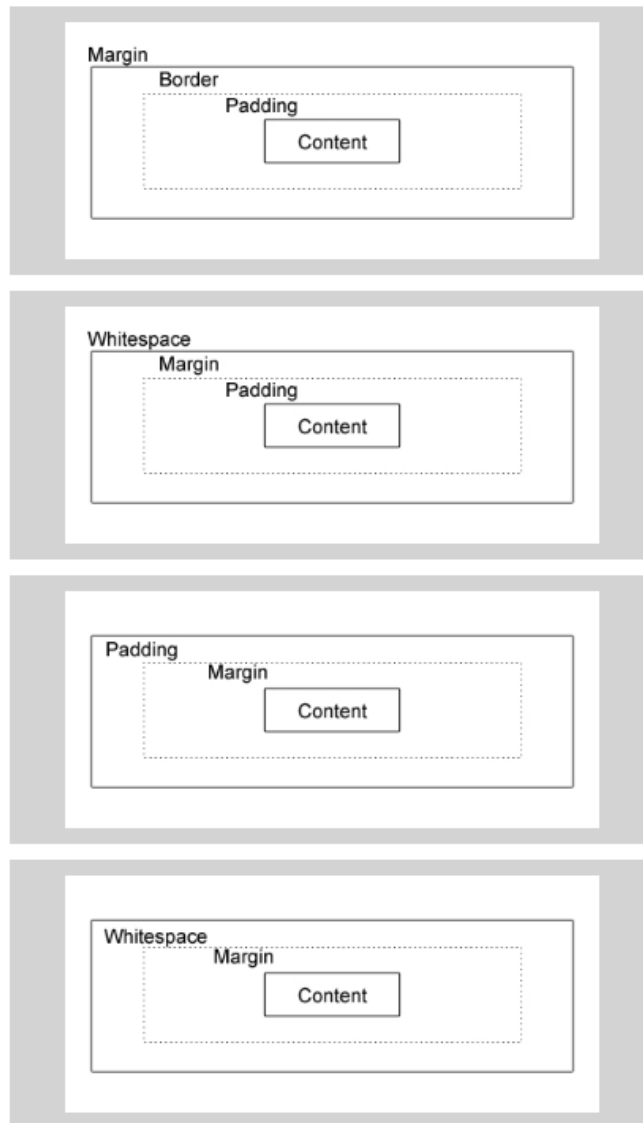
 font-family: Font Name;

 src: url("Link to font")' }
```
  - d. 

```
@font-style {

 Src: url("Link to font"); }
```
120. Which three web development "languages" are the framework of HTML5? (choose three)
- a. C#
  - b. Cascading Style Sheets
  - c. ASP

- d. JSP
  - e. JavaScript
  - f. Hypertext Markup Language
121. Which of the following images most accurately represents the CSS box model?



122. which code fragment will display an image file while the video is downloading?
- a. `<video width= "740" height= "416" poster= "horserace.jpg"?`
  - b. `<video width= "740" height= "416" autoplay= "horserace.jpg">`
  - c. `<video width= "740" height= "416" src= "horserace.jpg">`
  - d. `<video width= "740" height= "416" preload = "horserace.jpg">`
123. Which three are touch events in HTML5? (choose three)
- a. Touchgo
  - b. Touchend
  - c. Touchstart
  - d. Touchdrag
  - e. Touchstop
  - f. Touchmove
124. Which two of the following are semantic tags that are used to define layout in a HTML5 document? (Choose two)
- a. Figure
  - b. Section
  - c. Time
  - d. Figcaption
  - e. Footer
125. When should you use the new HTML5 `<canvas>` tag?
- a. To create a white background
  - b. To paint using your mouse
  - c. To draw graphics via scripting

- d. To draw graphics when you don't want to use scripting
126. Which of the following items is not a valid input type?
- a. Email
  - b. All of these are valid
  - c. Button
  - d. URL
127. Which is true about absolute positioning?
- a. The element is positioned relative to the upper-left corner of the browser
  - b. The element is positioned relative to its parent element
  - c. The element is positioned relative to the upper-left corner of the computer display window
  - d. The element can float right or left
128. Application packaging is the process of grouping all files relevant to an application into a single package. What kind of tool is used to do this?
- a. JavaScript
  - b. App Development environments
  - c. This is native feature of HTML5
  - d. WWAHost.exe

## Answers

1. A developer wants to make all images with the sepia class 80%. Fill in the missing code to fulfill the needs for the class.

Scenario: .sepia {

Filter: \_\_\_\_\_ ; }

e. Sepia (80)

f. Sepia (80%)

g. Sepia (20)

h. Sepia (20%)

2. Arrange, in order the stage of application lifecycle management. Not every stage will be used.

Step 1: Plan

Step 2: Design

Step 3: Develop

Step 4: Test

Step 5: Deploy

Step 6: maintain

3. Refer to this JavaScript code excerpt:

*Return this.Calculation();*

What does this Calculation represent?

a. Inheritance

b. Instantiation

c. Method

- d. Property
4. Which three commands are passed through the transformation layer to the output on the canvas display? (Choose three)
- a. Shrink
  - b. Translate
  - c. Flip
  - d. Scale
  - e. Rotate
  - f. Skew
5. Which of the following is the correct usage for the <time> tag?
- a. All of these are correct
  - b. The current time is <time datetime="2012-1-1T12:54:22Z">12:54</time>
  - c. The current time is <time value="getTime();" />
  - d. The current time is <time currenttime />
6. You are developing a new blog page and want to organize each post to stand alone.
- Which HTML5 section tag appropriate for organizing blog post?
- a. <blog>
  - b. <post>
  - c. <hgroup>
  - d. <article>
7. Which three of the following are true of Browser Cookies? (Choose three)
- a. Cookies can be created and stored with JavaScript
  - b. Cookies set by one site can be retrieved by any other website



- c. Cookies can be updated by the site that set them
  - d. Cookies are used to store data on the user's computer
  - e. Cookies are considered malware and should be avoided
8. Which three of the following are CSS gradient properties? (Choose three)
- a. Transparent-gradient
  - b. Radial-gradient
  - c. Repeating-radial-gradient
  - d. Opaque-gradient
  - e. Optical-gradient
  - f. Linear-gradient
9. Which of the following is the correct usage for the <figure> and <figcaption> tags?
- a. `<figure src="fig1.jpg" alt="Building Plans Fig. 1" />`  
`<figcaption>Fig. 1 – Building plans for the new construction project downtown.`  
`</figcaption>`
  - b. `<figure>`  
`<img src= "fig1.jpg" alt= "Building Plans Fig. 1" />`  
`<figcaption>Fig. 1 – Building plans for the new construction project downtown.`  
`</figcaption>`  
`</figure>`
  - c. `<figure>`  
`<img src= "fig1.jpg" alt= "Building Plans Fig. 1" />`  
`</figure>`  
`<figcaption>Fig. 1 – Building plans for the new construction project downtown.`

</figcaption>

- d. <img src= “fig1.jpg” alt= “Building Plans Fig. 1”

<figcaption>Fig. 1 – Building plans for the new construction project downtown.

</figcaption>

</img>

10. When using the <canvas> tag, which technique is used to draw the graphic to the page?

- a. None of these

b. A scripting language (such as JavaScript) is used.

- c. Only server-side code can be used to draw on the canvas element

- d. The canvas element has native support for geometric shapes, gradients and fill colors; it does not require any other code to draw these.

11. Given the following code:

```
<form oninput= “ ”>
```

```
<input type= “number” name= “a” value= “1”>
```

```
/ <input type= “number” name= “b” value= “0”>
```

```
= <output name= “x” for = “a b”> </output>
```

```
</form>
```

What is the correct syntax for the form oninput event?

- e. Oninput= “x= a/b”

- f. Oninputer= “a.value / b.value”

- g. Oninput= “a/b”

h. Oninput = “x.value=a.value/b.value

12. Which CSS style positions an element relative to the browser window?

- a. Position: static;
- b. Position: absolute;
- c. Position: relative;
- d. Position: fixed

13. Which of the following is a JavaScript event capable of executing a function when the device pointer hovers over a page element?

- a. Onmousein
- b. Onmouseout
- c. Onmousedown
- d. Onmouseover

14. Which of the following functions is used to control timing in JavaScript Animation?

- a. Timer()
- b. None of these
- c. Keyframes()
- d. setTimeout()

15. Which of the following is the correct syntax for a pattern attribute on an input tag.

- a. None of these
- b. Pattern password
- c. Pattern= "password"
- d. Pattern= "[A-z0-9]"

16. HTML5 includes which two history object methods to persist state information? (choose two)

- a. replaceState

b. `pushState`

c. `pageHistory`

d. `pageState`

e. `persist`

17. Which one of the following tags has been deprecated in HTML5?

a. `<small>`

b. `<acronym>`

c. `<b>`

d. All of these are correct

18. You are using JavaScript to access a client-side database. Which two JavaScript methods will insert data? (Choose two)

a. `Add()`

b. `Load()`

c. `Insert()`

d. `Put()`

e. `Get()`

19. What is the main purpose of CSS in HTML5?

a. CSS is used to determine style, positioning, and layout of a page.

b. CSS is used to define content on a page.

c. CSS is used for scripting on an HTML web Page.

d. None of these.

20. In JavaScript, what is the difference between a global versus a local variable?

a. A local variable can only be used by the function that defines it.

- b. A local variable is available to any code inside the script tags.
- c. A global variable is transported to other JavaScript programs located on other web pages.
- d. A global variable is created inside a method or function.

21. Which three of the following are gestures by Microsoft? (Choose three)

- a. Double tap
- b. Click
- c. Slip
- d. Flick
- e. Twirl
- f. Drag

22. On a windows touch device, in Mouse Pointer mode, which gesture serves the same purpose as a zoom out?

- a. Hold
- b. Pinch
- c. Swipe
- d. Tap

23. Which is a primary goal of the application launcher icon?

- a. Makes the application easier to configure
- b. Help users discover the application in the android market or the Windows Store.
- c. Differentiates the application as paid vs free.
- d. Identifies the developer of the application

24. You are using JavaScript to build a website. You need some effects to create pop-ups, tooltips, and a slideshow. What resource contains several JavaScript effects to create animations?

- a. Flash library
- b. jQuery library
- c. Visual Studio
- d. Silverlight library

25. Which is a new HTML5 tag that applies a yellow background?

- a. <yellow>
- b. <background>
- c. <highlight>
- d. <mark>

26. What is the purpose of a CSS Exclusion?

- a. To exclude old code from the CSS file, without deleting it.
- b. To create an area on the page where the text will automatically wrap and format around.
- c. To exclude chunks of old content from a document using a strikeout.
- d. To exclude specified colors from appearing on the site, allowing for a fixed color scheme.

27. You are using the new HTML5 <video> tag. It doesn't seem to be working correctly.

What is required for the <video> tag to function?

- a. File must be in .mov format
- b. Height and width attribute

- c. High-performance video card.
  - d. Control attribute
28. Which is the correct way to nest tags in HTML5?
- a. `<p> <b> <i>Hello, World ! </p> </b> </i>`
  - b. `<p> <b> <i>Hello, World ! </i> </b> </p>`
  - c. `<p> <b> <i>Hello, World ! </b> </i> </p>`
  - d. `<p> <b> <i>Hello, World ! </p> </i> </b>`
29. Which of the following is a method to the Geolocation object?
- a. `gpsPosition()`
  - b. `getMyLocation()`
  - c. `getCurrentPosition()`
  - d. `gpsLocation()`
30. Which of the following properties can be used to change the content of a div tag, obtained earlier in the code through the use of `document.getElementById()`?
- a. `.content`
  - b. `.node.Value`
  - c. `.innerHTML`
  - d. `.HTML`
31. The JavaScript rotation gesture is captured as degrees of the finger rotation. What value is returned by counterclockwise rotation?
- a. Value of 0
  - b. Whole number equal to the degrees of rotation
  - c. Negative value

d. Positive value

32. Which three of the following are JavaScript events? (Choose three)

a. `ondblClick()`

b. `alert()`

c. `onBlur()`

d. `onModify()`

e. `onMousePoint()`

f. `onClick()`

33. Which two of the following are correct uses of the `<div>` tag? (Choose two)

a. To change the resolution of the display

b. To add a drop shadow, background color, or a border to an item.

c. To divide an object.

d. To position multiple unrelated items as a group

e. To contain copyright information at the bottom of the page

34. Which two of the following are in-memory resources that can be accessed by JavaScript?

(Choose two)

a. Camera

b. Calendar

c. GPS

d. Contact list

e. Accelerometer

35. Which two tags help you avoid problems if a browser does not support JavaScript?

(Choose two)



a. `<!--`

b. `< - - //`

c. `- - >`

d. `<comment>`

e. `// - - >`

36. Which of the following is the correct syntax to create a canvas object?

a. `.getContext();`

b. `.draw();`

c. `.instantiate();`

d. `.create ();`

37. Which of the following methods can be used to set data into localStorage?

a. `localStorage.append(key, value);`

b. `localStorage.insert(key, value);`

c. `localStorage.addItem(key value);`

d. `localStorage.setItem(key,value);`

38. Which three are benefits of using the new HTML5 `<audio>` and `<video>` tags? (Choose three)

a. Elements can be controlled with scripting and CSS

b. Not vendor-specific

c. Backwards compatible with all browsers

d. No additional plug-ins are required

e. Supported by all codecs

f. Provides live streaming

39. Several tags have been slightly changed with the release of HTML5. These changes are largely semantic, changing the reason to use the tag but not how it renders on the page.

What is the correct usage of the <b> tag as of HTML5?

- a. This tag should be used when an item needs to be bolded but does not carry extra weight or importance. An example of this would be small heading, or emphasizing a keyword in an instruction (e.g. click **Submit** when you have completed this form).
- b. This tag has been deprecated, and should not be used.
- c. This tag should be used for important page headings instead of the old <h1> - <h6> tags.
- d. This tag should be used when an item requires extra emphasis, or has strong importance to the sentence in question (i.e. WARNING: Please be sure to uninstall the old version of our program **completely** before installing the latest release).

40. What new feature in HTML5 allows you to manage the state of a session?

- a. Manage State Tool
- b. Session Navigator
- c. Session Tracker
- d. History API

41. Which three methods are used for localStorage and sessionStorage? (Choose three)

- a. retrieveItem()'
- b. getItem();
- c. synch();

d. `setItem()`;

e. `refresh()`;

f. `removeItem()`;

42. What is the programming term for isolating a small piece (or pieces) of data from a larger item?

a. None of these

b. Exclusion

c. Elimination

d. Parsing

43. JavaScript can send a request to a web server, which then returns data to be used on the page. Which technology enables JavaScript to send and receive this data?

a. .ASP

b. Visual Basic

c. AJAX

d. .Net

44. A developer applies the following code to an `imgfilter` class:

```
.imgfilter{
 filter: sepia (75%) grayscale (100%);
}
```

What will be the net result of the filter applied to any image using that class?

e. The image will be mostly sepia with no gray

f. The image will be mostly sepia with some gray

g. The image will be completely gray

h. The image will be mostly gray with some sepia

45. Match each HTML form element with a situation in which the element is used.

Shows autocomplete options for entries = **Datalist**

Group related elements = **fieldset**

Shows a scalar measurement of a value = **Meter**

Define a group of related elements = **Legend**

Shows the result of a calculation = **Output**

46. Fill in the missing pieces of this code to create a class to calculate a total and then

instantiate said class. Not all code pieces will be used.

*Class total {*

*\_\_\_\_\_ (amount, salesTax) {*

*this.amount = amount;*

*this.salesTax = salesTax;*

*}*

*Get total() {*

*return this.calculation();*

*}*

*Calculation() {*

*return this.amount \* (1 + this.salesTax);*

*}*

*}*

*Let myTotal = \_\_\_\_\_*

*Total (1500, .075)*

e. Constructor

f. Initiator

g. New

h. Initialize

47. Which are two ways to store data using HTML5? (Choose two)

a. appCache

b. offlineStorage

c. driveCache

d. localStorage

e. sessionStorage

48. Which new CSS3 feature enable the use of fonts that are not preloaded on the client PC?

a. Font-free

b. WOFF

c. SVG

d. Font-family

49. What is the purpose of the JSON API?

a. Server-side graphical processing

b. Graphical processing inside of the web browser

c. Sending and receiving information from a web server through JavaScript

d. Mathematical calculations in JavaScript

50. How does the new Flexible Box Model eliminate the need for using float?

a. By allowing the browser to position the objects

b. By positioning objects relative to a parent object

- c. By positioning all objects at the coordinates 0,0
- d. By providing a container positioned by properties assigned

51. What JavaScript object is used to read touch input?

- a. Canvas
- b. Touchlist
- c. Screen map
- d. Click map

52. If a developer needs to hold a piece of data in JavaScript for use later in a function, what would they use?

- a. Container
- b. Variable
- c. Copy
- d. Function

53. What does the blob interface in the file API provide access to?

- a. None of these
- b. The file's metadata
- c. Raw binary file data
- d. A list of all files in a given directory

54. What is the advantage of the AppCache?

- a. The AppCache stores files on the user's local machine, causing them to load faster when called again. This also allows for the cached files to be accessed while the user is offline.

- b. The AppCache is used to cache user information on the server to allow for faster server-side processing on subsequent user connections.
- c. The AppCache is used to distribute the entire application to multiple different systems.
- d. The AppCache allows the developers to share common code across projects, leading to faster development process due to not rewriting already existing method.

55. Which of the following is an example of a heading tag?

- a. <title>
- b. <important>
- c. <h1>
- d. <head>

56. What is the purpose of CSS Regions?

- a. To define a content area on that site that is style-able as a whole
- b. To allow content to flow from one predefined box to another
- c. To group related sections of code together for easy readability
- d. To define an area of an image that is clickable, like a link

57. When running an app created with HTML5 in the Windows Metro Style UI, which process hosts the application?

- a. Svchost.exe
- b. Explorer.exe
- c. WWAHost.exe
- d. Iexplorer.exe

58. What is the correct syntax to make an input field required (the user must fill out the field before submitting the form)?

- a. None of these
- b. `<input type = "text / required">`
- c. `<input type = "text" required = "true">`
- d. `<input type = "text" required>`

59. What does the targetTouchllist represent?

- a. A list of touch points that caused the current event to be fired.
- b. All touch points currently in contact with the screen, whose touchstart event occurred within the same node the current target element.
- c. A list of 'hot' areas on the screen which are touchable items, defined by a set of x and y coordinates.
- d. None of these

60. Which two of the following are numeric values required for a touch event? (Choose two)

- a. Location
- b. Scale
- c. Linear
- d. Pressure
- e. Rotation

61. Which two of the following are methods used for drawing / animation? (Choose two)

- a. `fillStyle();`
- b. `moveTo();`
- c. `motionTween();`



- d. `tweenElement();`
- e. `slideElement();`

62. How is an HTML5 touch-enabled application tested?

- a. In a BlackBox
- b. On a PC with Firefox and Google Chrome
- c. On as many touch-enabled hardware devices as possible
- d. On both an Android and iPhone

63. Which three file formats are supported by the `<audio>` element in HTML5? (Choose three)

- a. AVI
- b. MP3
- c. OGG
- d. AU
- e. WAV
- f. AIFF

64. Which three of the following are table attributes that have been deprecated in HTML5 (choose three)

- a. Align
- b. Shape
- c. Cell Padding
- d. Width
- e. Fill
- f. Circle

65. What new CSS3 properties can help when the words are too long to fit in the content container?

- a. Split
- b. Break
- c. Wrap
- d. Hyphenation

66. Which three of the following are hardware that can be accessed by an HTML5 application? (Choose three)

- a. Garage door opener
- b. Camera
- c. Accelerometer
- d. Car
- e. Thermometer
- f. GPS

67. You are writing some code for a hiking application that measures the hiker's distance and speed. Which built-in capability allows a developer to measure the movement of a mobile hardware device?

- a. In-memory resources
- b. GPS
- c. Webcam
- d. Accelerometer

68. Which three of the following describe the <aside> tag? (Choose three)

- a. This tag is used to postpone an action

- b. This tag is not used to define parenthetical statements
- c. This tag is used to define content that is tangentially related to the main context of the document (i.e., a sidebar in a book)
- d. This tag is used to define footnotes or annotations for a document
- e. This tag is used to define parenthetical statements
- f. This tag is used to delete content from a document

69. What is the difference between an App Package and an App Container?

- a. The App Package is the entire app packaged into a single file. This process is similar to archiving a larger number files to transfer them to another person. The App container is the memory space allocated at runtime for the app on the user's local machine.
- b. The App Package is the entire app packaged into a single file. This process is similar to archiving a larger number of files to transfer them to another person. The App Container is a directory within App Package that contains all resource files (scripts, stylesheets, images, etc.) for the app.
- c. App Package and App Container are synonyms.
- d. The App container is the entire app packaged into single file. This process is similar to archiving a large number of files to transfer them to another person. The App Package is the memory space allocated at runtime for the app the user's local machine.

70. What is jQuery?

- a. A language specifically written to access database
- b. A vector-graphic language

c. Lightweight, “write less, do more” JavaScript Library

d. Java-based query language

71. Which three of the following are included in the HTML5 family? (Choose three)

a. Silverlight

b. Java

c. SVG

d. CSS

e. HTML Markup

f. JavaScript

72. Which three methods return a node, or nodes, based on the arguments sent? (Choose three)

a. getElementById();

b. retrieveTagName();

c. getElementByTagName();

d. retrieveElementID();

e. getElementByTagNameNS()

f. retrieveID()

73. what is the purpose of the “flex-flow” property?

a. None of these

b. Flex-flow defines the alignment of child boxes (top, center, bottom) within the flex box.

c. Flex-flow allows the designer to set both the flex-direction and flex-wrap properties with single line of code.

- d. Flex-flow ONLY determines whether or not the child boxes will wrap to a new line upon running out of space.

74. You are developing graphics for a smartphone app using HTML5. The app will have real-time mathematical animations, and the number of objects could be many. Which tag should you use?

- a. `<canvas>`
- b. `<svg>`
- c. `<object>`
- d. `<translate>`

75. Which of the following is the correct syntax to retrieve the physical location of the user's device?

- a. `Var longitude = navigator.geolocation.getUserLong();`  
`Var latitude = navigator.geolocation.getUserLat();`
- b. `Navigator.geolocation.getCurrentPosition();`
- c. `Var location [] = navigator.geolocation.getUserLocation();`
- d. `Navigator.geolocation.getCurrentPosition (printMethod, errorMethod) ;`

76. What is used to increase the size of the screen display?

- a. Slide
- b. Flick
- c. Pinch
- d. Hold

77. How do developers properly add controls to an audio element?

- a. `<audio controls= "controls">`

- b. <audio control>
- c. <audio controls= “on”>
- d. <audio controls= “Play, Pause, Seeking, Volume”>

78. What is the benefit of Web Worker?

- a. Allows the developer to spawn background scripts that run simultaneously
- b. Limits the memory used by scripts
- c. Restricts scripts from running in the background
- d. Forces scripts to execute sequentially

79. Which is the correct method to define a block element as a grid?

- a. None of these
- b. Display: grid;
- c. Grid: true
- d. Show: grid;

80. Which two of the following can be read by the FileReader interface? (Choose two)

- a. File object
- b. File properties
- c. User data
- d. List of files
- e. Blob object

81. Which two are new HTML5 input types? (choose two)

- a. Date
- b. Maxlength
- c. Tel

- d. Autofocus
- e. Pattern

82. Which two of the following are JavaScript Touch Event Types?

- a. touchStart
- b. touchPan
- c. touchZoom
- d. touchEnd

83. If you pass a negative value to the rotated() method, what is the result?

- a. It rotates the element clockwise
- b. It flips the element into the mirrored position
- c. It rotates the element counter-clockwise
- d. It won't work.

84. You want to create a CSS style that will modify the strong tag to apply blue color and add 60% transparency. Which of the following code fragments will do this?

- a. Strong {color: rgba(0%,0%,100%,40%); }
- b. Strong {color:rgba(#0000ff, 60%); }
- c. Strong { color: rgba(0,0,255, 0.40); }
- d. Strong {color: rgba(0, 0, 255, 60); }

85. What is the correct syntax for a CSS comment?

- a. #Comment Goes Here #
- b. /\* Comment Goes Here \*/
- c. <!-- Comment Goes Here - - >
- d. // Comment Goes Here

86. Which two of the following are new organization tags in HTML5? (choose two)

- a. <head>
- b. <body>
- c. <footer>
- d. <div>
- e. <section>

87. A project team has successfully planned a website with a client. Which step is the next step in the application lifecycle management stage?

- a. The project should be tested
- b. The project should be prototyped
- c. The project should be developed.
- d. The project should be designed

88. A group of which you are developing a website wants a form to have some field utilize the autocomplete feature when people fill out the form. Which HTML tag should you use for any field that needs this autocomplete feature?

- a. Datalist
- b. Input
- c. Select
- d. Fieldlist

89. What is the purpose of the poster attribute for a video tag?

- a. The poster attribute defines an image used in place of the video, until the video loads or the user hits play.
- b. The poster attribute is used to define the user who provided the video.



- c. The poster attribute which frame (an integer value) should be used as the image in place of the video, until the video loads or the user hits play.
- d. There is no poster attribute for the video tag. Poster is used to define a very large image on a webpage.

90. JavaScript is used to perform which three of the following tasks (choose three)

- a. Add dynamic functionality to a webpage
- b. Handle client-side calculations
- c. Add styling to a webpage
- d. Add interactive capabilities to a webpage
- e. Define content semantically on a page
- f. Replace all the features of Java

91. In JavaScript, a “pinchclose” gesture has a scale of \_\_\_\_\_.

- a. Less than 1.0
- b. Greater than 1.0
- c. Greater than 0
- d. Less than 0

92. You’ve develop an application for mobile devices. Now you need a launcher icon. Which

Microsoft application should you used to develop an launcher icon?

- a. PowerPoint
- b. Expression Design
- c. SilverLight
- d. Illustrator

93. What is a “launcher icon”?

- a. A graphic that takes the user to the developer's website
- b. A graphic of a rocket
- c. A link that launches to a graphic
- d. A graphic that represents an application on the device's home screen

94. Which two of the following are validation values for the Type attribute of the text input tag? (choose two)

- a. Location
- b. url
- c. block
- d. email
- e. phone

95. which two HTML 5 tags will format text to be important? (Choose two)

- a. <strong>
- b. <I>
- c. <p>
- d. <b>
- e. <em>

96. Which three functions are included in the Geolocation object? (Choose three)

- a. getCurrentPosition
- b. watchLocation
- c. ClearWatchPostition
- d. watchPosition
- e. getLocation

f. findLocation

97. which type of hardware device is typically used with the geolocation API?

a. Microphone

b. GPS

c. Camera

d. Tablet

98. Which of the following is important to understand when creating animations using JavaScript?

a. Art

b. Mathematics

c. English

d. History

99. In HTML5, how should you separate the content from the design?

a. CSS

b. <div> tag

c. JavaScript

d. <table> tag

100. Which two are new HTML5 form fields? (Choose two)

a. Autofocus

b. Autocomplete

c. Progress

d. Mark

e. Output

101. Which two statements are true about positioning floated elements? (choose two)
- a. The element can float up or down
  - b. The element is positioned relative to the upper-left corner of the open window
  - c. The element is positioned relative to its parent element
  - d. The element is positioned relative to the upper-left corner of the browser
  - e. The element can float right or left.
102. As part of the debugging process, a programmer will usually use a validator to test their code. What does this accomplish?
- a. A validator is used to debug any scripts on the page. The advantage of the validator is allowing the code to stop at preset break points, and the manual inspection of variable values.
  - b. A validator checks over the page for any spelling or grammar errors in the content of the page, ignoring any markup.
  - c. A validator is a testing environment used to validate the page visually. This allows the developer to catch any errors in the markup that will cause the page to render incorrectly.
  - d. A validator checks the markup used on the page for any errors or problems in your code. It does not, however, provide an environment to test the code itself.
103. What are the three states of an HTML5 application? (Choose three)
- a. DataLink
  - b. Transport
  - c. Session
  - d. Application

- e. Persist
  - f. Presentation
104. Which is the correct syntax to round the corners of an element?
- a. Border-radius: 15
  - b. Border-radius: 15px;
  - c. Boroder-roundness: 15px;
  - d. Border:radius15;
105. Which two tags will repeat an audio file after it finishes playing? (choose two)
- a. <audio src= "file.wav" loop>
  - b. <audio src= "file.wav" loop=loop">
  - c. <audio src= "file.wav" endless>
  - d. <audio src= "file.wav" repeat>
106. What is the purpose of the flexbox properties in CSS?
- a. To display an element as a flexbox, allowing its size and position to adjust with the size of the viewport.
  - b. To display an element as flexbox, allow it to be moved dynamically to any position on the page with very little code.
  - c. To display an element as flexbox, allowing the content of a paragraph element to wrap around adjacent images.
  - d. To display an element as a flexbox, allowing the user to drag the edges of the box in and out to change its size.
107. What is the purpose of a Web Worker?
- a. To handle complex calculations client-side

- b. None of these
  - c. To give the developer automatic code completion when coding in JavaScript
  - d. To allow code to run in multiple threads while the website still responds to user input.
108. You want to publish an application to the Microsoft store. What should you do first?
- a. Review the app requirements and developer agreement.
  - b. Choose and reserve your app name
  - c. Submit your app to the store
  - d. Write your app's description and take screenshots
109. What is the purpose of the multi-column layout property?
- a. None of these
  - b. To replace tables
  - c. To assist developers in creating multi-column designs for their websites
  - d. To display content that is contained within one block element in a multi-column view when the page loads.
110. What is the primary difference between localStorage and sessionStorage in HTML5?
- a. localStorage is stored without a time limit, whereas sessionStorage is only available within the user's current session.
  - b. localStorage applies to only one user, sessionStorage applies to all users of the application.

- c. localStorage applies to only one user, sessionStorage applies to all concurrent users.
  - d. localStorage is stored on the server, sessionsStorage is stored on the user's local machine as a cookie.
111. You are creating a web page and need to hide an element. Which display property will hide an element on a web page?
- a. Display: hide
  - b. Display: inline
  - c. Display: block
  - d. Display: none
112. Which two of the following are correct syntax to hide a button using JavaScript with jQuery? (choose two)
- a. `getButton(name);`
  - b. `showButton(id)`
  - c. `retrieveElementBy(id);`
  - d. `hideButton(name);`
  - e. `document.getElementById(id).style.display= "none";`
  - f. `getElementBy(name);`
  - g. `document.getElementById(id).hide();`
113. which box model establishes content alignment, direction, and orientation?
- a. Fixed box model
  - b. Flexible box model
  - c. Parent box model

- d. Inheritance box model
114. Which element used for organizing web content has been deprecated in HTML5?
- a. Table
  - b. List
  - c. Head
  - d. Body
115. Which video formats are support by the video tag?
- a. Ogg, mpeg
  - b. The supported formats are controlled by the User Agent (web browser), not controlled by video tag specification.
  - c. Mp4, mp3, wma
  - d. Webm, ogg, avi
116. Which two of the following is true of SVG (Scalable Vector Graphics)? (Choose two)
- a. SVGs static and cannot be animated
  - b. SVGs cannot be directly embedded on a page
  - c. SVGs images are capable of being animated
  - d. SVGs are created in JavaScript, so require larger bandwidth than an actual file
  - e. SVGs are created purely in XML, and so require very little bandwidth compare to an actual file
117. How can HTML5 enhance the user experience on tablets and mobile devices?
- a. No dependency on browser plug-ins
  - b. It uses Microsoft Silverlight



- c. Fully utilizes flash to run on all mobile devices
  - d. Doesn't use a browser
118. Which two are new CSS3 properties that allow developers to display text into columns without using tables? (Choose two)
- a. Multi-column
  - b. Region
  - c. Section
  - d. List
  - e. Table
119. What is the correct syntax to use a non-web safe font on your site?
- a. All fonts used on a website must be web safe
  - b. 

```
.font {

 font-face-src: url("Link to font"); }
```
  - c. 

```
@font-face {

 font-family: Font Name;

 src: url("Link to font")' }
```
  - d. 

```
@font-style {

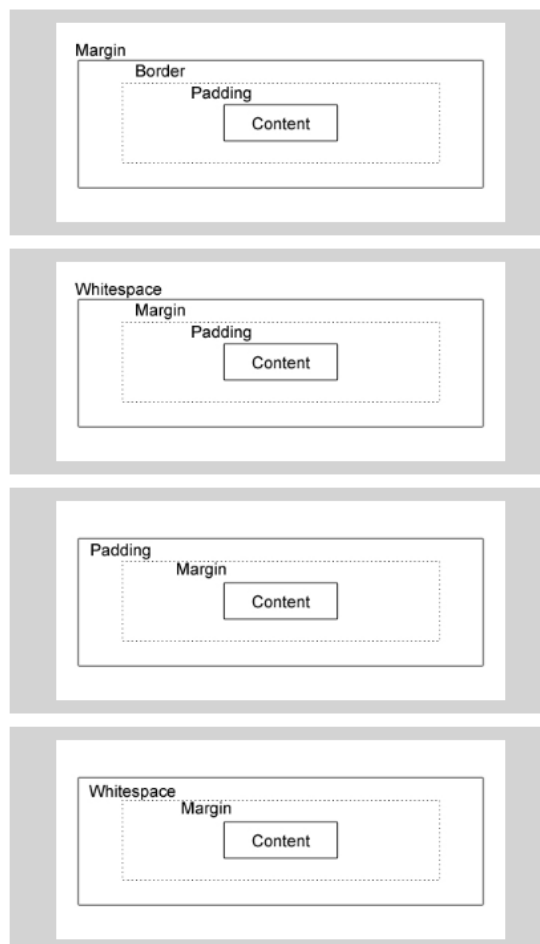
 Src: url("Link to font"); }
```
120. Which three web development "languages" are the framework of HTML5?  
(choose three)
- a. C#
  - b. Cascading Style Sheets
  - c. ASP

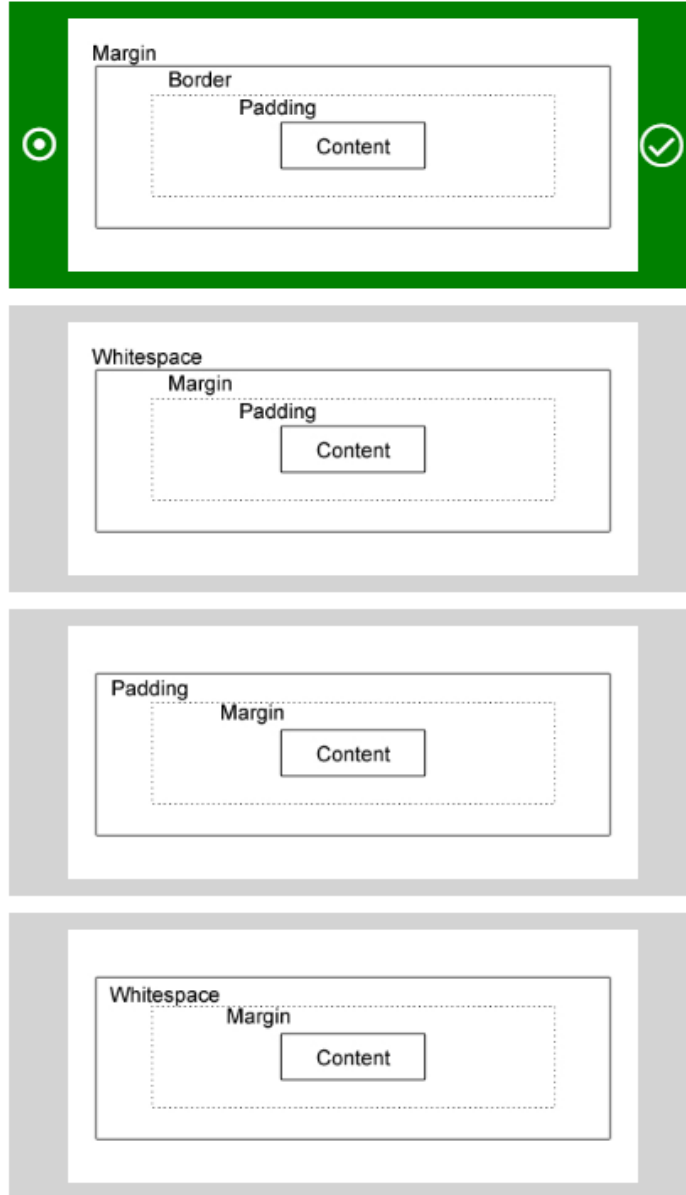
d. JSP

e. JavaScript

f. Hypertext Markup Language

121. Which of the following images most accurately represents the CSS box model?





122. which code fragment will display an image file while the video is downloading?

- a. `<video width= "740" height= "416" poster= "horserace.jpg"?>`
- b. `<video width= "740" height= "416" autoplay= "horserace.jpg">`
- c. `<video width= "740" height= "416" src= "horserace.jpg">`
- d. `<video width= "740" height= "416" preload = "horserace.jpg">`

123. Which three are touch events in HTML5? (choose three)
- a. Touchgo
  - b. Touchend
  - c. Touchstart
  - d. Touchdrag
  - e. Touchstop
  - f. Touchmove
124. Which two of the following are semantic tags that are used to define layout in a HTML5 document? (choose two)
- a. Figure
  - b. Section
  - c. Time
  - d. Figcaption
  - e. Footer
125. When should you use the new HTML5 <canvas> tag?
- a. To create a white background
  - b. To paint using your mouse
  - c. To draw graphics via scripting
  - d. To draw graphics when you don't want to use scripting
126. Which of the following items is not a valid input type?
- a. Email
  - b. All of these are valid
  - c. Button

- d. URL
127. Which is true about absolute positioning?
- a. The element is positioned relative to the upper-left corner of the browser
  - b. The element is positioned relative to its parent element
  - c. The element is positioned relative to the upper-left corner of the computer display window
  - d. The element can float right or left
128. Application packaging is the process of grouping all files relevant to an application into a single package. What kind of tool is used to do this?
- a. JavaScript
  - b. App Development environments
  - c. This is native feature of HTML5
  - d. WWAHost.exe