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| *All questions are 1 point each, except where indicated otherwise.* |

1. Which method of the Math object rounds a value to the next lowest integer?​

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|  | a. | ​ceil() | b. | ​floor() |
|  | c. | ​max() | d. | ​min() |

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| *ANSWER:* | b |

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| 1. . \_\_\_\_ refers to cleaning up, or reclaiming, memory that is reserved by a program.  |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Information hiding | b. | Garbage collection | |  | c. | Data collection | d. | Object hiding |  |  |  | | --- | --- | | *ANSWER:* | b | |  |  | |  |  |  1. In order to make a window the active window, you use the \_\_\_\_ method of the Window object.  |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | open() | b. | set() | |  | c. | focus() | d. | active() |  |  |  | | --- | --- | | *ANSWER:* | c | |

1. The \_\_\_\_ method is used in JavaScript to execute code after a specific amount of time has elapsed.

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|  | a. | clearInterval() | b. | clearTimeout() |
|  | c. | setTimeout() | d. | startTimeout() |

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| *ANSWER:* | c |

1. What is the primary difference between the search() method and the indexOf() method?

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| *ANSWER:* | The search() method returns the position of the first instance of the first character of a text string that is passed as an argument.  The indexOf() methodreturns the position of the first occurrence of one string in another string.  The primary difference between the search() method and the indexOf() method is that you can pass to the indexOf() method a second optional argument that specifies the position in the string where you want to start searching. If the search string is not found, the indexOf() method returns a value of -1.  10 points |

1. Which method returns the element created by the HTML tag pair <p id="​weekend" class="first"></p>?

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|  | a. | ​getElementsByTagName("first") |
|  | b. | ​getElementById("first") |
|  | c. | ​querySelectorAll("first") |
|  | d. | ​getElementsByClassName("first") |

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| *ANSWER:* | d |

1. Explain the relationship between the Window object and the Document object.

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| *ANSWER:* | The top-level object in the browser object model is the Window object, which represents a web browser window. The web browser automatically creates the Window object for you. The Window object is called the global objectbecause all other objects in the browser object model are contained within it. For example, the Window object contains the Document object, just as a web browser window contains a web page document. You use the methods and properties of the Window object to control the web browser window, while you use the methods and properties of the Document object to control the web page.  All elements on a web page are contained within the Document object, and each element is represented in JavaScript by its own object. This means that the Document object contains all of the elements you create on a web page.  ​  10 points |

1. You use a \_\_\_\_ statement within a try block to specify an error message.

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| --- | --- | --- | --- | --- |
|  | a. | catch | b. | call |
|  | c. | throw | d. | throws |

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| *ANSWER:* | c |

1. The window.alert() debugging method ​results in messages \_\_\_\_.

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|  | a. | ​written to the text of the document being debugged | b. | ​displayed in dialog boxes |
|  | c. | ​displayed in the browser console | d. | ​available only to the JavaScript processor |

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| *ANSWER:* | b |

1. . The \_\_\_\_ label contains statements that execute when the value returned by the switch statement expression does not match a case label.

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|  | a. | default | b. | else |
|  | c. | break | d. | continue |

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| *ANSWER:* | a |

1. What is the difference between syntax errors and run-time errors?

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| *ANSWER:* | Run-time errors differ from syntax errors in that they do not necessarily represent JavaScript language errors. Instead, run-time errors occur when the interpreter encounters code that it cannot execute. For example, consider the statement createRecommendation();, which calls a custom JavaScript function. This statement does not generate a syntax error, because it is legal (and usually necessary) to create and then call custom functions in a JavaScript program. However, if your program includes the call statement but does not include code that creates the function in the first place, your program generates a run-time error. The error occurs when the interpreter attempts to call the function and is unable to find it.  10 points |

1. . Unlike the while statement, the statements in a \_\_\_\_  statement always execute once, before a conditional expression is evaluated.

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|  | a. | do/continue | b. | do/while |
|  | c. | do/until | d. | do/using |

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| *ANSWER:* | b |

1. . If you want to execute one set of statements when a condition evaluates to a truthy value and another set of statements when the condition evaluates to a falsy value, you need the \_\_\_\_ statement.

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|  | a. | while | b. | if/else |
|  | c. | do/while | d. | switch |

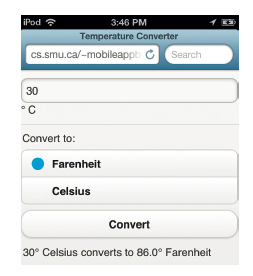
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| *ANSWER:* | b |

1. How can you combine text strings with JavaScript?

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| *ANSWER:* | You can use the concatenation operator (+) and the compound assignment operator (+=) to combine text strings. The JavaScript String class also includes the concat() method, which creates a new string by combining strings that are passed as arguments. The syntax for the concat() method is *string*.concat(*value1*, *value2*, ...). Note that the concat() method does not change the original string but returns a new string. The *value* arguments are appended to the string in the order in which they are passed to the concat() method.  10 points |

1. Write a JavaScript program that converts input temperature from Celsius to Fahrenheit and vice versa.

Present your program to the class and explain the design decisions you have made.



50 points