Answers to practice questions for the final exam.

1. Write a CSS style specification rule that would make all unordered lists ( tags) have square bullets and a purple background.

```
ul {
    list-style-type: square;
    background-color: purple;
}
```

2. Write three style rules for the following HTML snippet, as described below.

```
    `Twas brillig, and the slithy toves
Did gyre and gimble in the wabe
All mimsy were the borogoves
And the mome raths outgrabe.
```

a). Write a rule that would make this and all other paragraphs appear in 12-point font.

```
p {
    font-size: 12pt;
}
```

b). Write a rule that would make this and other paragraphs in the same class as this example appear in italic type.

```
p.poetry {
    font-style: italic;
}
```

c). Write a rule that would make this particular paragraph only appear in bold type.

```
#stanza1 {
    font-weight: bold;
}
```

3. Consider the following fragment of JavaScript. Give the output that would be produced in the browser window by the pieces of code in parts (a) through (d) below.

```
// Part (a)
var i
for (i = 2; i < 8; i += 2) {
    document.writeln("The value of i is "+i+".<br />")
}

// Part (b)
var s = "Able was I ere I saw Elba."
document.writeln(s.indexOf('I'))
document.writeln("<br />")
```

```
// Part (c)
document.writeln(s.indexOf('I',11))
document.writeln("<br />")

// Part (d)
document.writeln(s.substring(12,19))
document.writeln("<br />")

tput:
```

a). Output:

```
The value of i is 2. The value of i is 4. The value of i is 6.
```

b). Output:

9

c). Output:

15

d). Output:

re I sa

4. Consider the following HTML page. Explain how you would modify the given HTML in order to make the background change to red under the specified circumstances, by calling redBG() through an event handler.

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Test Page</title>
<script language="Javascript" type="text/javascript">
<!--
function redBG() {
      // changes the document background to red.
      document.bgColor = "red"
}
//-->
</script>
</head>
<body>
<a href="link.html">A link</a>
</body>
</html>
```

a). Immediately when the page appears.

```
<body onLoad="redBG()">
```

b). If the page is not completely loaded for some reason.

```
<body onAbort="redBG()">
```

c). If another window is opened on top of the current one.

```
<body onBlur="redBG()">
```

d). If the user clicks on the link.

```
<a href="link.html" onClick="redBG()">A link</a>
```

e). If the user double-clicks on the link.

total += addTax(price2)

```
<a href="link.html" onDblClick="redBG()">A link</a>
```

f). If the user moves the mouse over the link, and then away.

```
<a href="link.html" onMouseOut="redBG()">A link</a>
```

- 5. Below are pairs of JavaScript commands. For each pair, (i) determine whether a function should be used to carry out the work of both lines, and (ii) if so, give the function definition and set of calls to it that would replace the original pair or commands. An example has been done for you.

```
c). document.writeln("This message will appear in the body.")
alert("This message will appear in a pop-up window.")
```

It doesn't make sense to use a function here. The differences between the two lines include not just the **values** printed ("This message will appear in the body." vs. "This message will appear in a pop-up window.") but also the actions taken with those values (document.writeln() vs. alert()). The two lines don't have enough in common to justify making them a function.

6. Give a complete HTML document that would create a set of frames as follows: the right half of the browser window is a single frame named fright showing the file right.html. The left half of the browser window is divided into an upper portion 135 pixels tall, and two lower portions taking up one third and two thirds of the remainder of the window, respectively. These three frames should display the files logo.jpg, toc.html, and help.html, respectively, and should be named flogo, ftoc, and fhelp.

7. Write a form that will collect information from a visitor and send it to be processed by JavaScript in the page summary.html. The form should collect the following information: petName (the name of a pet), petType (which can be either Dog, or Cat, or Bird) and pedigreed (which is either true or false, and should start out checked). Your form should include a Submit button, and should demonstrate proper use of the <label> tag.

```
<form action="summary.html" method="get">
  <label for="petName">Pet's name:</label>
```

```
<input type="text" name="petName" /></br />
<label for="petType">The pet is a:</label><br />
<input type="radio" name="petType" id="CatType" value="Cat" />
<label for="petType">Cat</label></br />
<input type="radio" name="petType" id="DogType" value="Dog" />
<label for="petType">Dog</label></br />
<input type="radio" name="petType" id="BirdType" value="Bird" />
<input type="radio" name="petType" id="BirdType" value="Bird" />
<label for="petName">Bird</label></br />
<label for="petName">Pedigree?</label>
<input type="checkbox" name="pedigree" value/></br />
</form>
```

8. Consider the an HTML document with a table in it called table1, and a particular cell in the table called cell23. Explain how you would access specific properties of cell23 under the document object models specified below (give a piece of JavaScript).

```
...
Cell 23 contents
```

a). How would you refer to the background color of cell23 in the Netscape 4 DOM?

```
document.layers["cell23"].backgroundColor
```

b). How would you refer to the text color of cell23 in the Microsoft IE DOM?

```
document.all["cell23"].style.color
```

c). How would you refer to width of cell23 in the W3C DOM?

```
document.getElementById("cell23").width
```

d). How would you refer to the cell border of cell23 in the Netscape 4 DOM?

```
document.layers["cell23"].border
```

e). How would you refer to the contents of cell23 in the Microsoft IE DOM?

```
document.all["cell23"].innerHTML
```

f). How would you refer to the cell padding of cell23 in the W3C DOM?

```
document.getElementById("cell23").style.padding
```