| Exam #                                                                    | 1 – 40 Minutes - Practice                                                                                                                                                                                                                                      | Last name:                   | First name:                                                                                             |  |  |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------|--|--|
| >                                                                         |                                                                                                                                                                                                                                                                |                              | closed-notes no-reference no-calculator exam. Only optes, books, and blank papers) must be put away out |  |  |
| >                                                                         | <ul> <li>Electronic devices must be turned off. Smart phones must be silenced and put away out of reach.</li> <li>Show all your work for solving/answering the problems/questions in the space provided. The backside of a page will not be graded.</li> </ul> |                              |                                                                                                         |  |  |
| >                                                                         | Do not provide multiple answers. If more than one answer is provided, the grader will only select one answer at random.                                                                                                                                        |                              |                                                                                                         |  |  |
| ><br>>                                                                    | <ul> <li>All problems/questions have equal weight unless otherwise specified.</li> <li>Take a break (if you need to) before accepting the exam. You must turn-in the exam before leaving the classroom.</li> </ul>                                             |                              |                                                                                                         |  |  |
| 1) a) Briefly explain why JS is referred to as a <i>dynamic</i> language. |                                                                                                                                                                                                                                                                |                              |                                                                                                         |  |  |
| <b>b)</b> Defir                                                           | ne a dictionary in JS having the follo                                                                                                                                                                                                                         | owing three key-value pairs  | s: name:joe, age:21, major:astronomy.                                                                   |  |  |
| <b>c)</b> Give                                                            | one example for each of the two n                                                                                                                                                                                                                              | otations, dot and bracket, u | used for referencing values.                                                                            |  |  |
| =                                                                         | made a change in JS code but its ened on the webpage either. What c                                                                                                                                                                                            |                              | orresponding webpage. No error is being e error in his code?                                            |  |  |
|                                                                           | ing getElementById() JS function, spy-200px.                                                                                                                                                                                                                   | show statements to change    | e the size of "head1" DIV HTML element to                                                               |  |  |

b) Using getElementById() JS function, write a statement to show the value of the text of "head1" HTML element in

d) Show the respective CSS code of "core" HTML DIV of 150px-by-150px size with its center located at the center of

c) Show a statement to make "head1" HTML element clickable to call function *fnc1* when clicked.

an alert box.

its parent DIV of 400px-by-400px.

| <b>3)</b> Consider "hello" HTML element which is function <i>fnc3</i> which changes the color of thred if it was green (or some other color). | _                                                |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------|
| red in it was green (or some other color).                                                                                                    |                                                  |                           |
|                                                                                                                                               |                                                  |                           |
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|                                                                                                                                               |                                                  |                           |
| 4) a) Consider the following HTML code of a                                                                                                   | a form:                                          |                           |
|                                                                                                                                               | " method="post" onSubmit="                       | ">                        |
| <input id="&lt;/td&gt;&lt;td&gt;'major" name="" type="text"/>                                                                                 |                                                  |                           |
| <input td="" type="submit" v<=""/> <td></td> <td></td>                                                                                        |                                                  |                           |
|                                                                                                                                               |                                                  |                           |
| Complete the above form so that when "sul                                                                                                     | bmit" button is clicked. <i>fnc4</i> function is | called and if <b>fnc4</b> |
| returns true <a href="https://www.utsa.edu">https://www.utsa.edu</a> is called                                                                |                                                  | ,                         |
| <b>b)</b> Write the code for <i>fnc4</i> function such that "engineering" or "biomedicine," otherwise,                                        | •                                                | ïeld text equals          |
| <i>fnc4</i> code:                                                                                                                             |                                                  |                           |

**5)** Consider the following combination of HTML/CSS/JS code:

```
<!DOCTYPE html>
<html>
        <head>
                 k rel="stylesheet" type="text/css" href="e5.css" />
                 <script src="script5.js"></script>
         </head>
         <body>
                 <div id="mySpace"></div>
         </body>
</html>
/*CSS e5.css file*/
.mySpace {
        background-color: green;
        color: black;
        width: 600px;
        height: 600px;
        margin-left: 20px;
}
//JavaScript script5.js file
```

document.getElementById("mySpace").innerHTML="This is my space to launch ideas from.";

a) Mary says that executing the HTML code in a browser will cause an error in the JS code. Assuming that she is correct, what error will be caused?

b) Ben claims that CSS file does not correctly specify the style of DIV "mySpace." Assuming he is correct, what is the problem with the CSS code?

c) Show the complete updated HTML code within <body> tag to specify "myldeas" DIV of size 40px-by-60px anywhere within "mySpace" DIV. Show the corresponding CSS code in Part #d.

<body>

</body>

d) CSS code for Part #c: