Midterm Review

Note: there might be question(s) on exam where you should write code using HTML, CSS and JavaScript to make a basic web application. So, practice to write few applications from scratch (just using text editors like NotePad++, not IDEs)

1. What is the difference between the Internet and the World Wide Web?
2. Http works on top of IP. Support this statement.
3. Can we use <div> instead of <span> and vice versa? Explain.
4. Why html tags like <b> and <i> are discourage in HTML 5?
5. What is the use of <label> tag for html form elements.
6. What is the use of name attribute in form input elements?
7. What does (.) and hash (#) in css corresponds in html?
8. Explain what following selectors do
   a. div, p {…}
   b. div p {…}
   c. div>p {…}
   d. p.class1.class2{…}
9. Answer questions based on following html and css codes.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <h1>This is heading</h1>
    <p>Some text in a paragraph.</p>
</body>
</html>
```

```css
body{
    margin:0;
    padding:0;
    color:red;
}
```

   a. What is the color of h1 and p elements?
      i. Default color depending on browser
      ii. Black
      iii. Red
   b. What is the margin for h1 and p elements?
      i. Default value set by browser
      ii. 0
      iii. Margin for P tag + margin of h1 tag.
10. How float and clear property works together while designing layout?
11. What are tradeoffs for choosing between GET and POST methods?
12. Write functions donkey1 and donkey2 so that in both cases below, an alert box comes up after 12 seconds that says "hee haw!"
```
setTimeout(donkey1(), 12000);
setTimeout(donkey2, 12000);
```

13. What do the following 2 alerts display?

```
var myfunc = function(a, x) {
      return a * x;
};
var x = myfunc(2, 3);
var y = myfunc;
alert(x);
alert(y(2,3));
```

14. What will be the output of following code?

```
function calculate(f, a, b) { return f(a, b); }
var op = function(x,y){return x+y;};
var op1 = function (x,y){return x*y;};

alert(calculate(op1,3,4));
alert(calculate(op,9,6));
```

15. Questions 1-4 below refer to this jQuery expression:
    $(".hide").click(function() { $(this).slideUp("slow"); });

    a. What does $(".hide") return?

    b. The argument to click is
       ```
       i. the value returned after running the anonymous
          function
       ii. the anonymous function itself
       iii. the object literal inside the anonymous function
       iv. a jQuery object
       v. a jQuery function
       ```
    c. $(this) returns
       ```
       i. Null
       ii. Undefined
       iii. a single DOM element with 'hide' in its class string
           wrapped in a jQuery object
       iv. a collection of DOM elements with 'hide' in their
           class string wrapped in a jQuery object
       v. none of the above
       ```