CITS1231 Midterm Test (A total of 45 marks)

Full Name: _______________________________  Username: ______________________________
Student Number: ____________________________  Signature: ______________________________

True/False (1 mark each)
Indicate whether the sentence or statement is true or false.

F 1. The internet relies on a robust network of computers in a hierarchical structure employing dynamic routing.

F 2. The site structure shown in the figure above is an augmented hierarchical structure.

T 3. Relative URLs allow your website to be more easily relocated to another domain.

T 4. The Web is an application on the Internet.

F 5. An internal style sheet overrides any inline styles.
Modified True/False (1 mark each)
Indicate whether the sentence or statement is true or false. If false, change the identified word or phrase to make the sentence or statement true.

F  6. The host name in www.uwa.edu.au is uwa.. ___________ WWW ____________

F  7. Domain Name Servers map symbolic computer names to their host names. _____IP ADDRESS____

T  8. An HTML document is divided into two parts, the head and the body. ______________________

F  9. When linking to email, use email:address. ___________ mailto ____________

F 10. The <span> tag marks scattered members of a conceptual group. ______<class>__________

Multiple Choice (1 mark each)
Identify the letter of the choice that best completes the statement or answers the question.

B 11. The tags <strong> and <em> are ____ character tags.
   a. Intrinsic   c. Parsed
   b. Logical   d. Physical

B 12. The ____ element is used to mark logical blocks within an HTML document.
   a. <blockquote>   c. <span>
   b. <div> d. <class>

D 13. To create a cell that spans two rows in a table, you enter the <td> tag as ____.
   a. <td rowspan="2">   c. <td colspan="2">
   b. <td colspan="2"> d. <td rowspan="2">

D 14. The syntax for adding a textfield of 3 rows, each of width 40 is: ____.
   a. <textfield rowspan="3" colspan="40">blah blah</textfield>
   b. <textfield row="3" width="40">blah blah</textfield>
   c. <text row="3" width="40">blah blah</text>
   d. <textarea row="3" cols="40">blah blah</textarea>

C 15. The precision at which audio amplitude is digitized is called the ____.
   a. Sample rate
   b. Frame rate
   c. Sample resolution
   d. Sample precision
Short Answers (2 marks each)

16. Write the HTML code to create a hyperlink to the named anchor “tips” inside http://www.uwa.edu.au/teaching.html. The text to be displayed for this link is “Useful Tips”.

```html
<a href="http://www.uwa.edu.au/teaching.html#tops">Useful Tips</a>
```

17. Write the HTML code to define an image map hotspot for a circle with centre (50, 60) and radius 10. This hotspot is to point to www.circles.com.

```html
<area shape="circle" coords="50,60,10" href="www.circles.com" />
```

18. What is the syntax for creating a bordered two row and three column HTML table? The first row has the following table headings: “Id”, “Name”, “Email”. The contents of the second row are: “1”, “Me”, “tbd”.

```html
<table border="1">
<tr>
<th>Id</th>
<th>Name</th>
<th>Email</th>
</tr>
<tr>
<td>1</td>
<td>Me</td>
<td>tbd</td>
</tr>
</table>
```

19. Does the use of a password field ensure the data to be sent to the server securely? Explain.

No. A password field just ensures that the password is not displayed as the user enters his/her password. You should avoid using the GET form method as the password will be sent clear in the URL. Use the POST method and ideally use SSL/encryption.
20. Write HTML code to display the background image “uwacrest.gif” in such a way that text browsers will display “University Crest Image” instead.

<body style="background-image:url('uwacrest.gif')" alt="University Crest Image"/>

21. Identify and describe four properties that are used in the CSS box model.

The following diagram is from www.w3school.com.
22. Name the three types of CSS. For each type, describe a situation which would naturally lead to you using that type over the other two.

External style sheet – used to define styles common across more than one web page.
Embedded style sheet – used for styles used in a single web page.
Inline style – used for to style a specific element.

23. Explain the differences between a client-side image map and a server-side image map.

<table>
<thead>
<tr>
<th>Client Side</th>
<th>Server Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faster</td>
<td>Slower</td>
</tr>
<tr>
<td>Client has all image links and can process locally.</td>
<td>Coordinates must be sent to server for processing. Link is then sent back to client.</td>
</tr>
<tr>
<td>Browsers can display link in status bar.</td>
<td>Browsers cannot display link in status bar.</td>
</tr>
<tr>
<td>Not supported by older browsers.</td>
<td>Supported by older browsers.</td>
</tr>
<tr>
<td>usemap attribute required</td>
<td>ismap attribute required.</td>
</tr>
</tbody>
</table>
24. When would you choose to use a PNG image format in preference to a GIF format, why?

<table>
<thead>
<tr>
<th>PNG</th>
<th>GIF</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 bit colours</td>
<td>Only 256 colours</td>
</tr>
<tr>
<td>8 bit transparency</td>
<td>1 bit transparency</td>
</tr>
<tr>
<td>Colour and gamma correction</td>
<td>n/a</td>
</tr>
<tr>
<td>Use for higher quality images</td>
<td>Use for lines, icons</td>
</tr>
</tbody>
</table>

25. Complete the following HTML code so that the resulting web page displays two paragraphs: “I have brown eyes.” and “My wife has blue eyes”. Use embedded styles so that the words “brown” and “blue” are to be displayed in brown and blue colour respectively.

```html
<html>
  <head>
    <style type="text/css">
      .brown {color:brown}
      span.blue {color:blue}
    </style>
  </head>
  <body>
    <p>I have <span class="brown">brown</span> eyes.</p>
    <p>My wife has <span class="blue">blue</span> eyes.</p>
  </body>
</html>
```
Blank Page for Extra Work

You can provide answers here if no enough space.

Make sure you clearly indicate the questions you are answering.