



University of the
West of England

Bristol Institute of Technology

Academic Year: 08/09
Examination Period: Summer

Module Leader: Paul Hulbert
Module Code: UFIE7W-20-1
Title of Module: Introduction to the Web

Examination Date: Friday 29th May 2009
Examination Start time: 13:30
Duration of Examination: 2 Hours

Instructions to Candidates:

Candidates must answer Question 1 in Section A
AND any three questions from Section B

Materials supplied to the candidate will be:

Number of Examination Booklets per Examination	1
Number of sheets of Graph Paper size G3 (Normal)	0
Number of Pre-printed OMR (Multiple Choice Answer Sheet)	0

Additional Instructions to Invigilators:

University approved calculators may be used	Yes
Candidates permitted to keep Examination Question Paper	Yes
Material supplied by student allowed (must be collected with answer booklet) please specify:	No
Additional Specialised Material : NONE	

Treasury tags & adhesive triangles will be supplied as standard

SECTION A

Answer **QUESTION 1** in this section

QUESTION 1

- (a) Study the following HTML code extract:
(Line numbers have been included for reference)

Code extract

```
1.    <?xml version="1.0" encoding="utf-8"?>
2.    <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
      Transitional//EN"
      "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
      transitional.dtd">
3.    <html xmlns="http://www.w3.org/1999/xhtml">
4.    <head> <title>First Page</title>
5.    <link rel="stylesheet" type="text/css" href="basic.css"/>
6.    </head> <body> <h2> <b> First </b> </h2>
7.    <a href="http://www.w3schools.com">Reference</a>
8.    
9.    <form name="pwd" action="s1.php" method="post">
10.   Your name: <input type="text" id="name" name="name" />
11.   <p> Your password: <input type="password" id="pwd"
      name="pwd" size="10" />
12.   </p> <input type="submit" value="Enter" /> </form>
```

End code extract

Provide detailed notes explaining each line of the above code, down to the individual elements.

[12 marks]

[Question 1 continues on the next page]

QUESTION 1 (continued)

- (b) Study the following extract from a style sheet.
(Numbers have been included for reference)**

Code extract

```
1.  #leftcol {
2.    background-color: #ffff00;
3.    font-size: 100%;
4.    margin: 0px 10px 10px 10px;
5.    float: left;
6.    width: 150px;}
7.  a:link {
8.    color: #b76666;
9.    text-decoration: none;
10.   border-bottom: thin dotted #b76666; }
11. .myheading {
12.   text-align: center;
13.   line-height: 1.8em; }
```

End code extract

Explain each line and the effect that each of the above style rules should have on elements in pages that are linked to the style sheet.

[13 marks]

END OF SECTION A

SECTION B

Answer **THREE QUESTIONS** in this Section

QUESTION 2

- (a) Explain the term “topology of a network”
[3 marks]
- (b) Explain ring, bus and star topologies with the aid of a sketch of each
[18 marks]
- (c) What is the topology of a home network with a wireless router, one computer connected via WiFi and one computer connected via a network cable? Explain your answer with the aid of a sketch. [4 marks]

QUESTION 3

- (a) Explain the four elements of the following URL:
`http://www.garfield.com/comics/todays_comic.html`
[6 marks]
- (b) Explain and differentiate between the terms ‘absolute’ and ‘relative’ in respect of hyperlinks, giving examples of each type of hyperlink.
[8 marks]
- (c) Explain what a ‘communication protocol’ is, illustrating your answer with descriptions of two communication protocols that are widely used in the Internet or the World Wide Web.
[11 marks]

QUESTION 4

- (a) What do style sheets (as in CSS) consist of, and what do they do?
[4 marks]
- (b) Describe and differentiate between external style sheets, embedded styles and inline styles. Provide examples in your answer.
[6 marks]
- (c) Explain how a web browser deals with multiple, possibly conflicting styles.
[6 marks]
- (d) What are the advantages for Web designers in using style sheets?
[9 marks]

QUESTION 5

- (a) What is a scripting language? [4 marks]
- (b) Explain what the JavaScript language is, and how it can be used. [7 marks]
- (c) Using a 'mouseover' event as an example, explain how JavaScript can "react to Web page events". [14 marks]

QUESTION 6

- (a) Explain what a browser plug-in is and how it can be used by a browser [4 marks]
- (b) Name 3 browser plug-ins [3 marks]
- (c) What are the main functions of browser plug-ins? [8 marks]
- (d) Various formats are used for still images. In web page design, how would you choose between BMP, JPG, GIF and PNG formats? [10 marks]

END OF QUESTION PAPER