

Computing, Engineering, Mathematical Sciences

Academic Year: 07/08
Examination Period: Summer

Module Leader: Module No:

Tony Drewry UFIE7W-20-1

Title of Module:

Introduction to the Web

Examination Date:

May 12th 2008

Examination Start time:

09:00

Duration of Examination:

02 Hour(s) 00 Minutes

Instructions to Students:

Answer FOUR questions. Answer 1 question in Section A and THREE questions from section B.

Materials supplied to the student will be:

Number of Examination Booklets (+ any continuation booklets as required) per Examination	1
Number of Pre-printed OMR (Multiple Choice Answer Sheet)	0
Number of sheets of Graph Paper size G3 (Normal)	0

Additional Instruction to Invigilators:

Calculators may be used subject to University regulations	Yes
Students allowed to keep Examination Question Paper	Yes
Material supplied by student allowed : please specify	No
Additional Specialised Material:	
None.	

Treasury tags & adhesive triangles will be supplied as standard.

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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. <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
- 2. "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
- 3. <html>
- 4. <head> <title>First Page</title>
- 5. stylesheet" type="text/css" href="mystyle.css"/>
- 6. </head> <body>
- 7. <h2> First </h2>
- 8. <form name="pwd" action="s1.php" method="POST">
- 9. Your name: <input type="text" id="name" name="name">
- 10. Your password:
 - <input type="password" id="pwd" name="pwd" size="10">
- 11. <input type="hidden" name="source" value="uwe03">
- 12. <input type="submit" value="Enter"> </form>

End code extract

Provide detailed notes explaining each line of the above code.

[18 marks]

(b) Study the extract from a style sheet.

(Numbers have been included for reference)

Code extract

End code extract

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

[7 marks]

[Total 25 marks]

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SECTION B

Answer **THREE QUESTIONS** in this Section

QUESTION 2

(a) In Web-page design, why is it generally preferable to use a GIF or JPG format for still images rather than BMP format? When and why would you use a GIF rather than a JPG?

[7 marks]

(b) Why would a web designer choose to use a PNG format for still pictures rather than GIF or JPG?

[3 marks]

(c) In respect of images in Web pages, what is 'interlacing'? Is it better to use interlaced images or non-interlaced images?

[5 marks]

- (d) Providing code examples, explain:
 - i. what 'ALT text' is.
 - ii. why and where a Web designer should use 'ALT text'.

[10 marks]

QUESTION 3

(a) What is CSS?

[4 marks]

(b) Describe and differentiate between 'external' style sheets, 'internal' styles and 'embedded' styles. In your answer provide examples and explain how a web browser deals with multiple, possibly conflicting styles

[12 marks]

(c) Why do Web designers use style sheets?

[9 marks]

QUESTION 4

(a) Explain what a 'communication protocol' is, illustrating your answer with a description of the TCP/IP 'family' of protocols.

[15 marks]

(b) With reference to the various protocols and Internet processes involved, explain how email works.

[10 marks]

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QUESTION 5

(a) What is a scripting language?

[3 marks]

(b) Providing code examples, explain what a JavaScript script is and how scripts are applied within Web pages.

(You may refer to the code extract below as one of your examples.)

[12 marks]

(c) Study the following code extract:

Code extract

```
1. function validate_required(field,alerttxt) {
2. with (field) {
3. if (value==null||value=="") {alert(alerttxt); return false;}
4. else {return true} } }
5. function validate_form(thisform) {
6. with (thisform) {
7. if (validate_required(email, "Email must be filled out!") == false)
8. {email.focus(); return false;} }
```

End code extract

Explaining each line, describe what the above script does.

[10 marks]

QUESTION 6

(a) Explain the terms 'client' and 'server' illustrating your answer with an e-commerce example.

[7 marks]

(b) Explain why you would sometimes validate data entry on the client, and sometimes on the server.

[8 marks]

(c) How and why would you validate HTML code?

[10 marks]

End of Exam