

1. (a) (i) Outline **three** uses of server side web programs. (3 marks)

- (ii) Explain **two** factors to consider when choosing a web programming language. (4 marks)

- (b) Explain **two** circumstances under which a web designer would prefer to use a web authoring tool when developing a website. (4 marks)

- (c) Outline **three** features of *micromedia dreamweaver*. (3 marks)

- (d) Write a JavaScript code embedded in HTML that would be used to display numbers and computes their cubes as shown below. Use while loop. (6 marks)

Number	Cube
1	1
2	8
3	27
4	64
5	125

- (c) Interpret the following JavaScript program. (4 marks)

```
<script language="JavaScript">
var home = new Image();
home src="http://yourdomain.com/image.jpg"
var home-roll = new Image();
home-roll src="http://yourdomain.com/image.jpg"
</script>
```

- (d) With the aid of a diagram in each case, explain the function of each of the following tags as used in web design.

- (i) <tfoot>; (3 marks)

- (ii) <colgroup>. (3 marks)

3. (a) State **three** circumstances under which a *paragraph* tag would be used. (3 marks)

- (b) Describe each of the following types of web authoring editors:

- (i) Pure WYSIWYG; (2 marks)

(ii) Compound editor. (2 marks)

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(c) (i) Explain a circumstances under which a *Split view* option would be used when designing a web page using a web authoring tool. (3 marks)

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(ii) Figure 1 shows a section of a web navigation toolbar of a web authoring tool. Use it to answer the question that follows.

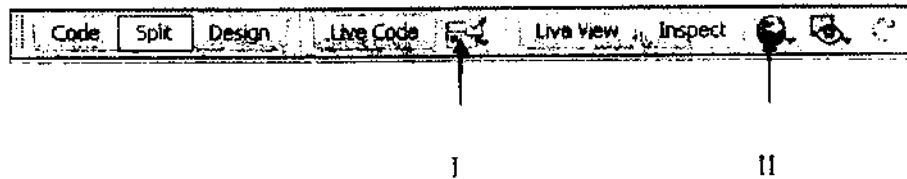


Figure 1

Outline the function of the tools labeled I and II. (2 marks)

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(d) Write a HTML code that would be used to generate the following output. (8 marks)

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CEET	6 months		1,500
CCAT	6 months		1,500

4. (a) Outline **four** types of *hyperlinks* used in web programming. (4 marks)

- (b) Explain the function of each of the following commands as used in web authoring tools.

- (i) design (2 marks)

- (ii) live code. (2 marks)

- (c) Interpret each of the following statements as used in HTML frames.

- (i) `cols="200,*"` (2 marks)

- (ii) `scrolling = "no"` (2 marks)

- (d) Write a HTML code that would be used to generate the following output. Apply font Cambria to the text. (8 marks)

Binary integer to decimal conversion

The following are the steps followed when converting 110 binary to decimal.

- Write the given number such as 110₂
- Below each digit write its respective place value starting from the right.

$$\begin{array}{ccc} 1 & 1 & 0 \\ 2^2 = 4 & 2^1 = 2 & 2^0 = 1 \end{array}$$

- Multiply each digit with its respective place value.

$$1 \times 4 = 4 \quad 1 \times 2 = 2 \quad 0 \times 1 = 0$$

- Add the products then write the answer in base ten to get the decimal equivalent.

$$6 + 2 + 0 = 6_{10}$$

5. (a) State the function of each of the following tags:

(i) `<blockquote>` (1 mark)

(ii) `<href>` (1 mark)

(b) (i) Explain the function of each of the following terms as used in Web authoring tools:

I. paste special; (2 marks)

II. copy. (2 marks)

(ii) Differentiate between *spoofing* and *phishing* as used in the Internet. (4 marks)

(iii) Explain the function of the `<hr>` tag as used in HTML. (2 marks)

(c) With the aid of an example, outline a statement that would be used to declare a string of characters in JavaScript programming language. (2 marks)

7. (a) Outline **four** attributes associated with the *image tag*. (4 marks)

- (b) Distinguish between *hypertext* and *hyperlink* as used in web programming. (4 marks)

- (c) Differentiate between each of the following file formats:

- (i) .fla and .swf (4 marks)

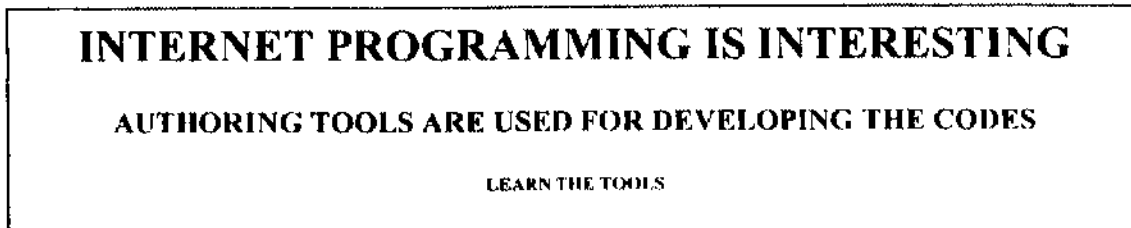
- (ii) .flv and .swc (4 marks)

- (d) With the aid of an example, describe the term *empty tag* as used in HTML. (4 marks)

8. (a) State **three** examples of list tags used in HTML. (3 marks)

- (b) Differentiate between *external links* and *internal link* as used in web design. (4 marks)

- (c) Charlyn, a computer user, had the following text on the design view of a web authoring tool she was using. Write a HTML code as it would appear in the code view window. (5 marks)



- (d) Write a HTML code that would be used to generate the following output when ran on a web browser. (8 marks)

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