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2920/304
INTERNET BASED PROGRAMMING
 November 2013
 Time: 3 hours

Signature: _____

Date: _____



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

MODULE III

INTERNET BASED PROGRAMMING

3 hours

For Examiner's Use Only

Question	1	2	3	4	5	6	7	8	Total Score
Candidate's Score									

This paper consists of 13 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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

(i) <button> (2 marks)

(ii) <pre> (2 marks)

(iii) <tbody> (2 marks)

(b) (i) State the threat to information posed by each of the following criteria on the internet.

I. hacking; (2 marks)

II. Malware. (2 marks)

(ii) Webi Company has a webserver which host valuable information about their clients. Explain **two** ways in which the company would protect the content in the web. (4 marks)

(c) Write a HTML code for a webpage that would display the text "Home Page" on the browser's title bar and a search engine should be able to locate the page using keywords *lily flower* and *home decoration*. (2 marks)

(d) Gavin a webmaster prefers to use a GUI applications such as Adobe Dreamweaver when creating HTML files. Outline **four** benefits that he achieves from using this strategy. (4 marks)



2. (a) Categorise each of the following languages as either *web scripting language* or *desktop application programming*.

ASP.net, Visual Basic, Turbo Pascal, C++, Perl, PHP

(3 marks)

- (b) With the aid of examples, explain **two** ways of setting *font-size* attribute in HTML. (4 marks)

- (c) Describe **three** examples of protocols used in the internet.

(6 marks)

- (d) Write a JavaScript code embedded in HTML that would display the following multiplication table when ran on a browser. Use for loop. (7 marks)

MULTIPLICATION

TABLE

7	x	0	=	0
7	x	1	=	7
7	x	2	=	14
7	x	3	=	21
7	x	4	=	28
7	x	5	=	35
7	x	6	=	42
7	x	7	=	49
7	x	8	=	56
7	x	9	=	63
7	x	10	=	70



3. (a) (i) Explain the function of *inline frames* as used in HTML codes. (2 marks)

(ii) List **three** examples of social sites available in the internet. (3 marks)

(b) Distinguish between `<i>` and `` tags as use in internet programming. (2 marks)

(c) Write an ASP code embedded in HTML code that would be used to display all the odd numbers from 1 to 9 in a columnar form when run on a browser. Use a for-next loop. (5 marks)

(d) (i) Outline **two** functions of a web server. (2 marks)



- (ii) Kiki a web developer, has been mandated to create a website for her company. She has a variety of web hosting companies that she has to choose from to host the company's website. Explain **four** factors that she has to consider when making the selection. (6 marks)

- 4. (a) Define each of the following terms as used in HTML: (2 marks)

- (i) page layout;

- (ii) whitespace.

- (b) Interpret the following JavaScript segment code giving the output. (6 marks)

```
<script>
function mynumber(x,y)
{
var sum;
sum = x+y;
return sum;
}

alert( mynumber (3,6));
</script>
```



(d) (i) Under what circumstance is the value for the *type* attribute set to "hidden" when creating forms in HTML. (2 marks)

(ii) Explain **one** reason for the current trend of slicing images during web design. (2 marks)

5. (a) (i) Outline **four** examples of web authoring software that generates codes automatically when developing website. (2 marks)

(ii) Explain **three** disadvantages of using *web editors* as a tool for creating a website. (6 marks)

(b) Write an HTML code that would be used to display the following list as it appears when ran in a web browser. (7 marks)

- I. Main point
 - A. Subordinate point
 - 1. First tertiary point
 - a. Example 1
 - b. Example 2
 - 2. Second tertiary point
- Main idea
 - Supporting idea
 - Detail for the supporting idea



- (ii) Nelly intends to create a website which would include pictures. Outline **three** examples of *graphics application* that would enable her to create, edit, and format graphics files for the website. (3 marks)

- (c) Tumaini College of Technology management has been advised to have a website. Outline **four** ways that the college may use the website. (4 marks)

- (d) Millie, an IT consultant, has created a website where she has explained her company services. In order to cut down the cost of hosting the site, she intends to create spaces on the webpages where other users can advertise. Explain **two** ways in which this space can be used to achieve the objective. (4 marks)

7. (a) With the aid of a diagram in each case, describe each of the following types of web page structures used when linking web pages.

- (i) linear; (3 marks)

- (ii) augmented linear. (3 marks)



8. (a) (i) Categorise each of the following internet based programming languages as *server-side* or *client-side*.

HTML ASP PHP CSS JavaScript VBScript

(3 marks)

- (ii) Outline **three** functional differences between *server-side* programming language and *client-side* programming language. (3 marks)

- (b) With the aid of an example in each case, distinguish between *absolute pathname* and *relative pathname* as used in HTML. (6 marks)

<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
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- (c) Write a HTML code that would generate the form shown below when run on a web browser. The admission number control should accommodate 8 characters. (8 marks)

Admission number:

Gender: male
 female

Course:

Regular
 Part time day
 Part time evening

