Name:	Index No//
2920/304	Candidate's Signature:
INTERNET BASED PROGRAMMING	
November 2015	Date:



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

MODULE III

INTERNET BASED PROGRAMMING

3 hours

INSTRUCTIONS TO CANDIDATES:

Time: 3 hours

Write your name and index number in the spaces provided above.

Sign and write the date of examination in the spaces provided above.

Answer any FIVE of the EIGHT questions in this paper in the spaces provided after each question.

Candidates to answer the questions in English.

For Examiner's Use Only.

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

This paper consists of 18 printed pages.

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

		scher in a college prefers students to develop websites by writing scratch instead of using code generated applications. Outline founds.	
(a) 	Expla	ain the term cache as used in a web browser.	(2 marks
(b)	(i)	Other than the <script> tag, outline three tags that can be added section of an HTML document.</td><td>ed to the head (3 marks</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td>(ii)</td><td>State a circumstance under which each of the following image</td><td>attributes could</td></tr><tr><td></td><td>(11)</td><td>be used in HTML:</td><td></td></tr></tbody></table></script>	

	A tea from for th	scher in a college prefers students to develop websites by writing H' scratch instead of using code generated applications. Outline four pais.	1 ML codes possible reason (4 marks
(a)	Expla	nin the term <i>cache</i> as used in a web browser.	(2 marks
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		II. repeat.	(2 marks
(c)		the aid of an example in each case, distinguish between a <i>link</i> and a arce locator as used in the Internet.	a <i>universal</i> (5 marks
(d)	(i)	State two differences between <i>dynamic</i> and <i>static</i> web pages as us Internet.	sed in the (4 marks
	(ii)	Outline two advantages of using <i>static</i> web pages.	(2 marks)

(a)	(i)	Outline the steps followed to view the source code of a page displayed browser.	i on a v (2 ma
			75.11
· —	(ii)	With the aid of an example, explain how a reserved character in HTM displayed on a webpage.	L coul (3 ma
(b)	Ann,	a web designer, would like to include images on a website she is creating. List four types of image file formats that she is likely to use.	g. (2 ma
	(ii)	Outline three factors that she would consider when placing images on	
		webpage.	(3 ma
	Outli	ne the function of each of the following parts of a web authoring tool into	

easytvet.com (1 mark) (I mark) (1 mark) Peter runs a non-governmental organisation and he is required to use a website to solicit for financial assistance. Explain three factors that he should consider when selecting a (6 marks)

(2 marks) Explain the term home page as used in the Internet. (a)

4.

Tag selector;

Document window;

Site panel.

server to host his website.

(ii)

(iii)

(iv)

(d)

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(b)	Disti	rguish between absolute URL path and relative URL path as used in HTI	viL. (4 marks)
(c)	Write	HTML segment code that may be used to:	····
	(i)	play music in a file named <i>mysong2.mp3</i> located in a site www.world when the text <i>mymusic</i> is clicked;	music (2 marks)
	(ii)	point to the location where the image named "logo.gif", located in the directory on " www.knec.ac.ke "	"images" (2 marks)
	(iii)	load a page named music.html in the directory above the music director	ry. (2 marks)
(d)	(i)	Given that the variable aNum holds a value 4. Determine the value of aNum++ after each of the following statement is executed in a JavaScr program:	
Marine 12 - Pho		I. $\operatorname{var} y = a\operatorname{Num} + +$	(1 mark)
	,	II. $\operatorname{var} y = ++a\operatorname{Num}$	(1 mark)

(ii)	Write a JavaScript program embedded in HTML that prompts a user to enter two values one at a time. The program should then use a function to determine the product of the two numbers and display the results on a web browser in the format $M \times N = \text{product}$. (6 marks)
	

8

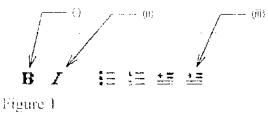
5. (a) Outline the function of each of the following HTML tags:





(b) Figure 1 shows command buttons labelled (i), (ii) and (iii) on a web authoring tool. Write the tags that would be generated on the code window when each buttons is clicked.

(3 marks)



(c) Explain the importance of considering each of the following factors when designing a

(i) the target andience; (2 marks)

9

(i) font size: (2 marks)

websiter

			tvet.com
	(iii)	domain name; TH garwallin arts to does to realismit and smile of	(2 mark
chem ()		THE ON HIS AND THE STREET OF STREET	
_			1
-			
	(iv)	navigation.	(2 mark
~5	2		-1
, -			
Kamin A)			
(d)	Write	a HTML code that would display the following form when run or	
		Gender? Send Clear	(6 marks
		Male O Female O La lactional another branches a work I wanted	
		What is your age range? The balances and blunch and some of all of the land.	
		16 to 25 26 to 40	
		40 to 60 Over 60	
*			
2)			
Sec. 2.113			
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(a)	State	e four types of video file formats that may be used to display a video on	the w
(a)	State	e four types of video file formats that may be used to display a video on	the w
(a)	State	e four types of video file formats that may be used to display a video on	the w
(a)	State (i)	e four types of video file formats that may be used to display a video on Some web developers believe that the best approach to create HTML use a text editor instead of visual approach. Explain three reasons for	code this.
		Some web developers believe that the best approach to create HTML	code this.
		Some web developers believe that the best approach to create HTML	(2 n
		Some web developers believe that the best approach to create HTML	code:
		Some web developers believe that the best approach to create HTML	code this.

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	(ii)) State for authori	our system requirements necessary when installing a graphical ving application in a computer.	web (4 marks
(c)	W ₁	rite the HTM	IL code that would generate the following table when run on a v	web (8 marks
		<u>N</u>	MY DAILY MENU	
	-		Orange juice Baked beans Tea	
	M O N	Lunch	Rice and meat Mashed potatoes	
		Dinner	Hamburger steak Mashed potatoes Ugali and traditional vegetables	
				<u> </u>
				· · · · · · · · · · · · · · · · · · ·

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<u>. </u>			
			
			
	····		
	Desc	ribe each of the following threats to data in the Internet	
(a)	Desc (i)	Denial of service;	(2 mark
(a)			(2 mar)

Explain three benefits of using templates to design a website. Write JavaScript program embedded in HTML that would be used to dis message on a web browser based on the system time as shown in Table I Time Message Before noon Good morning visitor From noon to 17 hr Good afternoon, and thanks for visiting From 17 hr to 20 hr Good evening, and thanks for visiting After 20 hr Glad to see you this time of the night Table 1	
Write JavaScript program embedded in HTML that would be used to dis message on a web browser based on the system time as shown in Table I Time Message Before noon Good morning visitor From noon to 17 hr Good afternoon, and thanks for visiting From 17 hr to 20 hr Good evening, and thanks for visiting After 20 hr Glad to see you this time of the night	
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