Schune

2920/304 INTERNET BASED PROGRAMMING November 2018 Time: 3 hours





# THE KENYA NATIONAL EXAMINATIONS COUNCIL

## DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

#### MODULE III

INTERNET BASED PROGRAMMING

3 hours

#### INSTRUCTIONS TO CANDIDATES

This paper consist of EIGHT questions.

Answer any FIVE of the EIGHT questions in the answer booklet provided.

All questions carry equal marks.

Candidates should answer the questions in English.

This paper consists of 4 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)	Explain the function of the HTML tag doc type .	(2 marks)
~	(b)	Outline four attributes of the option tag in a select control form.	(4 marks)
	(c)	Distinguish between each of the following pairs of HTML tags:	
		(i) <big> and <basefont/></big>	
		(ii) and 	(8 marks)
	(d)	Ali would like to develop a web site using a What You See Is What You Get (WYSIWYG) editor. Explain three benefits of using this editor.	(6 marks)
2.	(a)	Explain the function of each of the following attributes of a table:	
		(i) cellspacing;	
		(ii) cellpadding to spece that was blow leader cell teles, with a	(4 marks)
	(b)	Explain each of the following characteristics of web authoring tools:	the state of
		(i) cross-platform capability;	
		(ii) runtime player for distribution.	(4 marks)
	(c)	The final step in web page development is transferring the web document to server. Explain three ways in which this can be achieved.	a web (6 marks)
	(d)	Mari college intends to sensitize its website users on possible security attack three such attacks.	ks. Describe (6 marks)
3.)	(a)	Outline the function of each of the following HTML tags as used in web pro	Sgramming:
		(i) <script> to testing to the straight</td><td>7.9</td></tr><tr><td></td><td></td><td>(ii) <img></td><td>c-cy.</td></tr><tr><td></td><td></td><td>(iii) <dl> delimetra- lat</td><td>J.)</td></tr><tr><td rowspan=3></td><td></td><td>(iv) <caption></td><td>(4 marks)</td></tr><tr><td>(b)</td><td colspan=4></td></tr><tr><td></td><td>(i) scheme;</td><td></td></tr><tr><td></td><td></td><td>(ii) host name;</td><td></td></tr><tr><td></td><td></td><td>(iii) query string.</td><td>(6 marks)</td></tr><tr><td></td><td>(c)</td><td colspan=4></td></tr><tr><td>0.2</td><td></td><td>run on a browser.</td><td>(10 marks)</td></tr><tr><td>1</td><td></td><td>Regulation form</td><td></td></tr><tr><td>1.3</td><td></td><td>Faller your panerough</td><td></td></tr><tr><td>-</td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td>Rather your address</td><td></td></tr><tr><td>-21</td><td></td><td></td><td></td></tr></tbody></table></script>	

Figure 1

- Explain two advantages of expressing dimensions of tables used in a website as fixed (a) design in web development. (4 marks) Explain each of the following terms as used in the Internet: (b) (i) broken links: (ii) browser: Common Gateway Interface. Cat of sules that for (iii) Write a JavaScript program that would prompt a user to enter the radius of a circle. The (c) program should then use a function to calculate the circumference of a circle. Tira. (10 marks) 5 State the tags that are used for each of the following: (a) (i) define a division or a section in a HTML document; (I) override the current text direction; (II) defines a line which separates elements in a web page; (III) defines the string to be displayed in the browser title bar. (IV) (4 marks) Outline four attributes of a frame tag as used in HTML. (ii) (4 marks) (b) Ali, a web designer, was advised to include plugs-ing in a web site he was creating. Explain three uses of the plugs-ins. (6 marks) BMT Company has contracted personnel to develop their company website. Explain (c) three factors that the personnel should consider during the design. (6 marks) Outline the function of each of the following array object methods in JavaScript: (a) (i) split() (ii) concat() (iii) toString() (iv) push() (4 marks) Distinguish between embedded script and external script as used in JavaScript. (b) (4 marks) Explain three reasons why it is important for web sites to be validated before (c) implementation. (6 marks) The figure below shows a directory tree structure of a website having three images Kite. (d) Cloud and Sun.jpg. Use it to answer the question that follows.
  - IMAGES FILES // Maga

Write a HTML code that would insert the three images in their respective file locations.

(6 marks)

7.)	(a)	Outline four characteristics of get request method as used in web design. (4 mar				
	(b)	Distinguish between <fleldset> and <colgroup> as used in HTML.</colgroup></fleldset>				
	(c)	Distinguish between <fieldset> and <colgroup> as used in HTML. (4 marks)  Describe each of the following statements in HTML.</colgroup></fieldset>				
		(i)	<input name=" gender" type="radio" value="male"/> Gender			
		(ii)	<input checked="" name="sports" type="checkbox" value="soccer"/> Soccer Soccer Soccer Soccer Soccer 			
		(iii)	Password <input name="password" type="password"/>	(6 marks)		
	(d)	Write a HTML code that would display the following list when run on a browser.				
		Count	ries list: Zhouts Zhouts Zhouts	(6 marks)		
		1.	Kenya  Nairobi  Mombasa			
		2. 3.	Nairobi     Mombasa Uganda Tanzania  South Africa  Molevii   South Service  South Africa  Molevii  South Service  South S	7		
		7. 8. 9.	South Africa Malawi Lesotho	JANESS		
8.	(a)	Outline the function of each of the following event handlers in JavaScript:				
*		(i)	onmouseup;			
		(ii)	onelick;			
		(iii)	onmouseout;			
		(iv)	onunload.	(4 marks)		
	(b)	Distin	guish between a method and an object as used in JavaScript.	(4 marks)		
	(c)	Joel, a student, opted to use tables in a web page he developed. Explain three benefits of using this option. (6 marks)				
	(d)	Write an ASP program that would display all the even numbers from 2 to 100 on a web browser. Use a for loop. (6 marks)				

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