

DICT LEVEL III

		PRINCIPLES OF WEI	B DEVELOPMENT	
TUF	CSDAY: 22 May 2018.			Time Allowed: 3 hours.
Ans	wer ALL questions. Marks allocate	d to each question are sl	nown at the end of the question.	
	ESTION ONE			
(a)	(i) Explain four new featu	res inbuilt in HTML5.		(4 marks)
	(ii) Differentiate between '	Canvas" and "SVG" as u	used in HTML5 for graphics.	(4 marks)
(b)	Using HTML code, illustrate the	e font tag for Arial font sl	howing eight different sizes of for	each with its own colour.
	The word "WELCOME", each	on its own line should be	used to illustrate the above font to	ag. (4 marks)
(c)	Write down HTML code that we	ould create a table with th	ne following data:	
	Community	Male	Female	
	OBC	35	40	
	SC/ST	23	12	
	GEN	12	10	(0 1)
			150	(8 marks) (Total: 20 marks)
OH	ESTION TWO	_(7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	(10tal. 20 marks)
(a)	Describe the following types of po	sitioning as used in HTM	AL nages:	
()	z eservet and reme wing types or pe	sitioning as asea in a re-	in pages.	
	(i) Static positioning.			(1 mark)
	<i>(</i> 1)	atella		
	(ii) Relative positioning.	- O Mic		(1 mark)
	(iii) Absolute positioning.	Learning		(1 mark)
	(iv) Fixed positioning.) `		(1 mark)
(b)	Write the HTML code that would	display the following cor	ntent on being rendered by a brow	ser:
	I love my country.			•
	I buy food freely.			
	 I exercise my rights. 			
	 I cheer up my people. 			
	The end!			
				(4 marks)
(c)	"Use of frames in web development	nt is steadily losing popu	larity".	
	Highlight four reasons in support of	of the above statement.		(4 marks)
(d)	Use the < layer> tag with appropria	ate dimensions to create a	an html document with three overl	apping layers.
	Ensure that the back layer is red, the	ne middle layer is blue ar	nd the front layer is green.	(8 marks) (Total: 20 marks)
				(LOTAL: 20 IIIa FKS)

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- (a) Explain the following terms in the context of web design:
 - (i) Web browser automation.

(2 marks)

(ii) Plug-ins.

(2 marks)

- (b) Citing an example of a programming language used in each case, explain the following terms as used in web programming:
 - (i) Front-end.

(2 marks)

(ii) Middle ware.

(2 marks)

(iii) Back-end.

(2 marks)

- (c) Write JavaScript code to perform the following tasks:
 - (i) Declare three variables; one number and two strings. The number should be 20, and first and second strings should be "20" and "Twenty" respectively. (3 marks)
 - (ii) Declare an array called 'numbers'. Numbers should contain 3 elements. Assign the variables declared in (c)(i) above in the 'numbers' array. (3 marks)
 - (iii) Resize the numbers array in (c)(ii) above so as to contain two extra numbers 45 and 30.

(2 marks)

(iv) Use FOR loop to iterate through the numbers in (c)(iii) above and display the numbers in an appropriate pop up.

(2 marks)

(Total: 20 marks)

QUESTION FOUR

- (a) (i) Using a short code example, illustrate how you would use the style attribute to specify the width and height of an image called "html5.gif". (2 marks)
 - (ii) Show how you would include the folder name in the above example if the image was stored in a folder called "images". (2 marks)
- (b) Mwandawiro recently designed a web application intended to serve kasneb students with tutorials as well as online training in the various subjects they undertake in their course. Mwandawiro is in the process of choosing a web hosting company.

Required:

Prepare a list of four items that wandawiro should consider before settling for a specific web hosting company.

(4 marks)

(c) (i) Highlight two differences between cookies and local or session storage.

(4 marks)

(ii) Write down the HTML code that would render the output below. Ensure that the background colour specified should be the actual colour behind the text.

Background-colour set by using #FF0000

Background-colour set by using #00FF00

Background-colour set by using #FFFF00

Background-colour set by using #FFFF00

Background-colour set by using #FF00FF

Background-colour set by using #00FFFF

(8 marks)

(Total: 20 marks)

QUESTION FIVE

(a) Citing five reasons, justify the use of animation in e-commerce websites.

(5 marks)

(b) A web developer has an image which he wants to insert inside his text in Photoshop. He has already duplicated the image into two layers named: Background layer and Layer 1. He has also added a third blank layer (Layer 2) between the other two layers and given it a white background. Further, he has entered text and positioned it correctly on its own layer between Layer 1 and Layer 2. However, he is unable to insert the image in Layer 1 into his text to create the illusion that the image is inside the text.

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Guide him on the final steps to follow so that the image could be seen through the text.

(5 marks)

(c) Prepare a step by step instruction on how to create a bouncing ball animation with motion tweening in flash.

Use frame1, frame5 and frame10 in your key frame to create the animation in your sequence.	(10 marks)
	(Total: 20 marks)