

DICT LEVEL III

PRINCIPLES OF WEB DEVELOPMENT

TUESDAY: 21 May 2019. Time Allo								
Answer ALL questions. Marks allocated to each question are shown at the end of the question.								
QUES (a)	OUESTION ONE							
	(i)	An "information arc	wing pairs of terms in the context of web development: hitect" and a "content strategist". X) design" and "user integrated (UI) design". and "styling".	(4 marks)				
	(ii)	"User experience (U	(4 marks)					
	(iii)	"Markup language"	(4 marks)					
	(iv)	"Frontend web devel	(4 marks)					
(b)	Table A below shows selected software tools for web development while Table B shows tasks associated v software tools.							
	(i) (ii) (iii)	Table A HTML CSS Javascript Ruby	Table B Checks a form field for a valid entry Creates a custom server-side web application Identifies text as a second level heading Makes all second level headings blue					
	Requi Combi		3 into one table by matching a software tool with the appropriate	e task. (4 marks) (Total: 20 marks)				
OUEST	TION TY	vo essì						
(a)	(i)		ised, explain the concept of timers in Javascript.	(3 marks)				
	(ii)	Identify the major dra	awback of using timers.	(2 marks)				
(b)	(i)	In relation to web dev	velopment, explain the meaning of the term "embedded style she	eet". (1 mark)				
	(ii)	Use the relevant element to illustrate how you could embed an entire style sheet within an HTI						
(c)	(i)	Differentiate between	a "class selector" and an "id selector" as used in cascading style	es sheets (CSS). (2 marks)				
	(ii)	Using a suitable code	, illustrate the use of both the class selector and the id selector.	(4 marks)				

(d) Consider the code below:

```
<script>
Function validateform () {
  var name = document.myform.name.value
  var password = document.myform.password.value;
  if (name == null || name == "") {
    alert ("Name can't be blank");
    return false;
} else if (password.length<6) {
    alert ("password should be more than six characters long");
    return false;
}
}
</script>
```

Required:

Create the graphical user interfaces that will be rendered by the code above on a browser.

(6 marks)

(Total: 20 marks)

QUESTION THREE

(a) A web developer wants to create a simple movie clip using Flash CS3.

Required:

Enumerate the procedure he would use to perform each of the following

(i)	Open a new document.	nn	(2 marks)
(ii)	Access the document properties.	, site	(2 marks)

- (iii) Change the speed of the movie to make the animation smoother. (2 marks)
- (b) F List four multimedia file extensions used within HTML. (2 marks)
- (c) Describe the functions of three parties involved in the process of domain name registration. (6 marks)
- (d) Appraise the following emerging trends as applied in web design:

(i) Responsive design. (2 marks)

(ii) Chatbots. (2 marks)

(iii) Microinteractions. (2 marks)

(Total: 20 marks)

QUESTION FOUR

(a) The table below shows the estimated area in square kilometers of selected towns in different counties:

Coastal Counties

County	Capital	Area (sq Kilometers)		
Mombasa -	Mombasa	212:5		
Kwale	Kwale	8,270.3		
Klifi.	Kilifi	12,245.9		
Tana River	Holla	35,375.8		

Required:

Write a HTML code that will render the above table on a browser.

(10 marks)

(b)	"It is imperative for web developers to come up with interactive web sites".				
	Requ (i)	ired: Define an "interactive website".	(2 marks)		
	(ii)	Analyse four ways you could make a website interactive.	(8 marks) (Total: 20 marks)		
QUES (a)		FIVE ise of easy-to-use "what you see is what you get (WYSIWYG)" software has contributed to the development industry.	he overall growth of		
	With	respect to the above statement, state three generic WYSIWYG web development software.	(3 marks)		
(b)	(i)	Distinguish between "white hat" and "black hat" search engine optimisations.	(4 marks)		
	(ii)	Explain the term "usability testing" as it relates to a website.	(3 marks)		
(c)	Highl	(4 marks)			
(d)	Using	. (4 marks)			
(e)	Differ	rentiate between an "add on" and a "patch" as used in website development.	(2 marks) (Total: 20 marks)		
		Access tree learning material by visiting this metosite intuitive.			