



(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS YEAR TWO SEMESTER TWO EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

COURSE CODE

BIT 222/BIT 328

COURSE TITLE

WEB TECHNOLOGIES I

DATE: 01/10/2021

TIME: 9.00 A.M- 11.00 A.M

INSTRUCTIONS TO CANDIDATES
ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]

1.	1. HTML uses		
	A. User defined tags	B.Pre-specified tags	
Continu	C. Fixed tags defined by the language D.	Tags only for linking	
2.	2. Fundamental HTML Block is known as		
		HTML Tag	
2	C. HTML Attribute D.I	HTML Element	
3.	How can you make a bulleted list with numbers		
1	A. <dl> B. C.L. T. Cofer to an extend of CSC CI 11 11 12 12 12 12 12 1</dl>	D. 	
4.	To refer to an external CSS file within an HTMI		
		SCRIPT >	
5	Which attribute, when added to a dropdown list,	STYLE >	
9.	the list in HTML?	allows the user to select more than one item from	
		The checked attribute D. The multiple ettribute	
A. The option attribute B. The many attribute C. The checked attribute D. The multip 6. Which statement is NOT correct about the 'GET' method in HTML Forms?			
	A. A. It is useful if you want to allow the user t	bookmark the result of the form submission	
	B. B. It is the default used when the method att	ribute is omitted from the form element	
	C. Data from the form is appended to the action	URL in the form of name/value pairs upon	
	submission and is visible in the address field of	he browser.	
	D. It is a good choice to send sensitive data to the	e server.	
7.	. If we want define style for an unique element, th		
0		ame	
8.	. If we want to use a nice looking green dotted bo	der around an image, which css property will we	
	use?		
0	A. border-color B. border-decoration C. b	order-style D. border-line	
1.	Which attribute can be added to many HTML / Y of a specific group?	HIML elements to identify them as a member	
	A. Id B. div C. class	Damon	
10	0. When we write , what "img	D. span	
	A. element B. attribute C. value D. operator	p.phg made double quote implies?	
11.	1. Which css property you will use if you want to a	d some margin between a DIV's horder and its	
	inner text ?	some margin octwool a DIV 3 volder and its	
	A. spacing B. margin C. padding D.ir	ner-margin	
12.	2. Which CSS property is used to control the text si	ze of an element ?	
	A. font-style B. text-size C. font-size	D. text-style	
13.	By default Hyperlinks are displayed with an under	erline. How do you remove the underline from all	
	hyperlinks by using CSS code?		
		{text-decoration:none;}	
1.4	C. a {text-style: no-underline;} D. a	{text-decoration: no-underline;}	
14.	4. The word "cascading" in CSS is best described by	which statement below?	
	A. list of style rules are strictly applied from the	bottom to the top of the list, with no exceptions.	
	B. The final properties of an element are changed	by applying a variety of rules to that particular	
	location within the overall HTML page. C. One mistake in a higher rule will immediately	vino out all large 1	
	D. Once you start to style an element, you are req	wipe out all lower rules.	
	properties are defined.	uned to continue adding styres until all possible	
15.	5. Why use CSS?		
		allows for the separation of style and content	
	C. it helps make the web page's browser independ	ent D. it change the structure of the web page	
16.	5. The style declaration block consists of what?	or are page	
	A. inline, embedded, external css B. se	elector, property, value	
	C. html, css, javascript D. <	p> color:blue	
17.	What is "style" when you use it in an internal CSS		

	A. tag B. property C. value D. none				
18.	You would like to highlight text on a web page. What tag would you use?				
	A. mark B. section C. article D. detail				
19.	. Which of the following is an advantage of using JavaScript?				
	A - Less server interaction B - Immediate feedback to the visitors				
20	C - Increased interactivity D - All of the above.				
20.	. Which of the following function of String object returns the characters in a string be	tween two			
	indexes into the string? A - slice() B - split() C - substr() D - substring()				
21	Which of the following function of String object returns the calling string value con-				
21.	lower case?	verted to			
	A - toLocaleLowerCase() B - toLowerCase() C - toString() D - substring()				
22.	JavaScript is ideal to				
	A. make computations in HTML simpler B. increase the download time for the clie.	nt			
	C. increase the loading time of the website D. minimize storage requirements on the	e web server			
23.	JavaScript is alanguage.				
	A. Object-Oriented B. Object-Based C. High-level D. Assembly-language				
24.	. What is a block statement in JavaScript?				
	A. conditional block				
	B. block that contains a single statement				
	C. both conditional block and a single statement				
25	D. block that combines multiple statements into a single compound statement. The "var" and "function" are				
25.	A. Keywords B. Prototypes C. Data types D. Declaration statements				
26	The method or operator used to identify the array is				
	A. isarrayType() B. == C. === S D. Typeof				
	Essay Questions				
27.	Very generically, what are <div> and used for in HTML?</div>	[2 marks]			
20	D.C	12			
28.	Differentiate between "==" and "===" operator as used in JavaScript	[3 marks]			
QUESTION TWO [20 MARKS]					
a.	HTML tags provide web browsers with instructions about the web page, such as who	ere to display			
	images, and how the document is structured. Using example distinguish between HTML				
	document structure tags and content (container) tags	[4 marks]			
b.	Write HTML tag to output the Figure 1 below.	[6 marks]			
10000	AND THE PROPERTY OF THE PROPER	The state of the s			

Fruits	Vitamin A	Vitamin C
Apples	98 ui	8.4 mg
Oranges	295 ui	69.7 mg
Bananas	76 ui	10.3 mg

Figure 1: Fruits and their Nutritional values

c. Write HTML code that will output the figure below.

[6 marks]

-Contact Details		
Name:		
Telephone:		
Email:		
User info		·//
Username:		
Password:		
Submit now	 	

Figure 2: Student Biodata Form

QUESTION THREE [20 MARKS]

a.	What is CSS?	[2 marks]
b.	Highlight two limitations of CSS	[2 marks]
C.	Cascading Style Sheets offer web designers two key advantages in managing complex web sites.	
	Briefly discuss these advantages.	[6 marks]
d.	Explain the benefits and demerits of External Style Sheets in web development?	[6 marks]
a.	Differentiate Class selector from ID selector.	[4 marks]

QUESTION FOUR [20 MARKS]

- a. Write JavaScript code to show examples of a global variable and a local variable. [2 marks]
 b. Distinguish Push and Unshift methods in JavaScript. [4 marks]
 c. Using an example explain how are object properties are assigned. [4 marks]
 d. Why do we need variables in a JavaScript program? Explain how they are used throughout a program.
 - Declare a variable that will store an array of string values. Explain every component of the syntax that you use. [8 marks]

BQUESTION FIVE [20 MARKS]

Study figure 3 and use it to answer the part a, b and c.

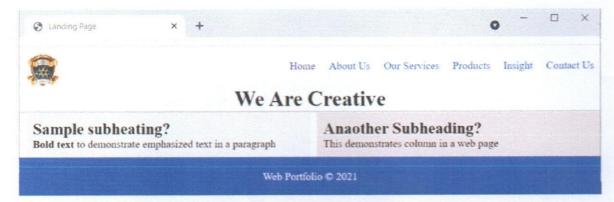


Figure 3: Web Portfolio Landing page

Note:

- Color for column 1 is white smoke (#F5F5F5)
- Color for column 2 is neutral gray (##e9dfd)
- Color for footer is blue
- Entity name for © is copy.
- a. Write html code that will display Figure 2 shown above. Include links for style sheet file (style.css) and JavaScript file (main.js). You will create an external styling sheet in part b of this question and an external JavaScript file in part c of this question.
 [8 marks]
- b. Create a style.css file to format the above html file to output the figure above.
- [6 marks]

c. Create a Main.js JavaScript file to perform the following task.

- [6 marks]
- i. Has a variable the can display a student's first and last name.
- ii. Great the student by his last name assigned in variable created above.