



(Knowledge for Development)

KIBABII UNIVERSITY (KIBU)

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS YEAR TWO SEMESTER TWO EXAMINATIONS

FOR THE DEGREE OF MASTERS OF SCIENCE (INFORMATION TECHNOLOGY)

COURSE CODE

MIT 842E

COURSE TITLE

WEB TECHNOLOGIES

DATE: 18/06/2022

TIME: 2.00 P.M. - 5.00 P.M.

INSTRUCTIONS TO CANDIDATES
ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [20 MARKS]

QUESTION ONE (COMPULSORY) [20 MARKS]							
1.	HTML uses	B. Pre-specified tags					
	A. User defined tags C. Fixed tags defined by the language	4 0 1: 1:					
2	Fundamental HTML Block is known as						
4.	A LITMI Rody	B.HIML Tag					
	C UTMI Attribute	D.HTML Element					
3.	How can you make a bulleted list with number	pers? D. 					
	A JIN R COID UNISI	D. U.					
4.	To refer to an external CSS file within an H	b) <script> </script>					
	a) <css> </css>	4) <stvif> </stvif>					
_	c) <link/>	list, allows the user to select more than one item from					
5.							
	A The options attribute B. The many attrib	outes C. The checked attribute D. The multiple					
6.	6. If we want to define a style for a unique element, then which CSS selector will we use:						
	A. Id B. text C. class	D.name					
7.		ed border around an image, which CSS property will					
	we use? A. border-color B. border-decoration	C. border-style D. border-line					
0	A. border-color B. bolder-decoration	AL/XHTML elements to identify them as a member					
8.	of a specific group?						
	- ti	D. span					
9.	When we write , what	at "img.png" inside double quote implies?					
	A. element B. attribute C. value D. operato	ant to add some margin between a DIV's border and its					
1	0. Which CSS property you will use if you w	ant to add some margin between a					
	inner text? A. spacing B. margin C. padding	D inner-margin					
	TITLE I CCC	lext Size of all cicinon.					
A. font-style B. text-size C. font-size D. text-style A. font-style B. text-size C. font-size D. text-style							
1	2. By default Hyperlinks are displayed with a	an underline. How do you remove the underline from all					
	hyperlinks by using CSS code?						
	A. a {text: no-underline;}	B. a {text-decoration:none;}D. a {text-decoration: no-underline;}					
	C. a (text style, he and	wheel by which statement helow?					
1	C. a {text-style: no-underline,} 3. The word "cascading" in CSS is best described for the control of the contr	om the bottom to the top of the list, with no exceptions.					
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							
	D. Once you start to style an element, you	are required to continue adding styles until all possible					
	properties are defined.						
	14. Why use CSS?	B. it allows for the separation of style and content					
	A. it helps create unique web pages	dependent D, it changes the structure of the web page					
A. it helps create unique web pages C. it helps make the web page browser-independent D. it changes the structure of the web page 15. The style declaration block consists of what?							
	A. inline, embedded, external CSS	B. Selector, property,					
	C html css javascript	D. color:blue					
	16. What is "style" when you use it in interna-	al CSS? C value D. none					
	P property	Value					
	17. You would like to highlight text on a wel	D. detail					
A. mark B. section C. article D. detail 18. Which of the following is an advantage of using JavaScript? 18. In the section C. article D. detail							
	18. Which of the following is an advantage of	Immediate feedback to the visitors					
	A - Less server interaction B -						

- C Increased interactivity D All of the above.
- 19. Which of the following function of the String object returns the characters in a string between two indexes into the string?

A - slice() B - split() C - substr() D - substring()

20. Which of the following function of the String object returns the calling string value converted to lower case?

A - toLocaleLowerCase() B - toLowerCase() C - toString() D - substring()

QUESTION TWO [20 MARKS]

- a. HTML tags provide web browsers with instructions about the web page, such as where to display images, and how the document is structured. Using example distinguish between HTML document structure tags and content (container) tags
- b. Explain any three tags found only in HTML5.
- c. Write HTML tag to output the Figure 1 below. [6 marks]

[4 marks]

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

d. 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 .	Distinguish between web design and development.	[4 marks]
	Explain three essential client-side technologies for website development.	[6 marks]
	Discuss two ways that you can use to evaluate a website.	[6 marks]
	Explain the role of ID and Class as used in CSS	[4 marks]

QUESTION FOUR [20 MARKS]

a. Discuss the importance of understanding how to use colour on a website.
b. Discuss the importance of compressing images for use on a website.
c. Explain two ways you can use to compress images.
d. Explain three color codes that can be used in HTML.
[6 marks]
[6 marks]
[6 marks]

QUESTION FIVE [20 MARKS]

Study figure 3 and use it to answer parts 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 the 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.

 [10 marks]

Page 4 of 4

b. Create a style css file to format the above HTML file to output the figure above. [10 marks]