



(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

SPECIAL/SUPPLEMENTARY EXAMINATIONS YEAR THREE SEMESTER ONE EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

COURSE CODE :

BIT 312/CSC363E

COURSE TITLE :

WEB TECHNOLOGIES II/

DATE: 14/11/2022

TIME: 2.00 P.M - 4.00 P.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]

1.	An article element contains –	
2	A. Text or embedded content B. Image C. Audio D. None Which of the following is the correct syntax for referring the external style sheet?	
4.	A. <style src="example.css"></th><th></th></tr><tr><th></th><th>B.<style src = "example.css" ></th><th></th></tr><tr><th></th><th>C. <stylesheet> example.css </stylesheet></th><th></th></tr><tr><th></th><th>D. < link rel="stylesheet" type="text/css" href="example.css"></th><th></th></tr><tr><th>3.</th><th>Which of the following is the correct syntax to make the background-color of all</th><th></th></tr><tr><th></th><th>paragraph elements to yellow? R. n. (background-color: #yellow:)</th><th></th></tr><tr><th></th><th>A. p {background-color : yellow;} C. all {background-color : yellow;} D. all p {background-color : #yellow;} D. all p {background-color : #yellow;}</th><th></th></tr><tr><th>1</th><th>If we want define style for an unique element, then which css selector will we use?</th><th></th></tr><tr><th>4.</th><th>A. Id B. text C. class D.name</th><th></th></tr><tr><th>5</th><th>To make your website mobile friendly, you can make your website</th><th></th></tr><tr><th>٥.</th><th>A. Responsive B. Reactive C. Fast Loading D. Light</th><th></th></tr><tr><th>6.</th><th>Which of the following is true about JavaScript</th><th></th></tr><tr><th></th><th>A. It is a server side scripting language B. It is client side scripting language</th><th></th></tr><tr><th></th><th>C It is a Software D d) It is a database</th><th>nt</th></tr><tr><th>7.</th><th>When users are involved in complex tasks, the demand on can be significated to the complex tasks.</th><th>m.</th></tr><tr><th></th><th>A. short-term memory B. shortcuts D. all of the mentioned</th><th></th></tr><tr><th>0</th><th>C. objects that appear on the screen Which type of JavaScript language is D. all of the mentioned</th><th></th></tr><tr><th></th><th>A Object-Oriented B Object-Based C. Assembly-language D. High-level</th><th></th></tr><tr><th>9</th><th>Which of the following JavaScript function of the String object returns the character in</th><th></th></tr><tr><th>7.</th><th>the string starting at the specified position via the specified number of characters?</th><th></th></tr><tr><th></th><th>A. slice() B. split() C. substr() D. search()</th><th></th></tr><tr><th>10</th><th>In JavaScript the x==-v statement implies that:</th><th></th></tr><tr><th></th><th>A. Both x and y are equal in value, type and reference address as well.</th><th></th></tr><tr><th></th><th>B. Both are x and y are equal in value only.</th><th></th></tr><tr><th></th><th>C. Both are equal in the value and data type.</th><th></th></tr><tr><th>11</th><th>D. Both are not same at all. Which of the following is not JavaScript Data Types?</th><th></th></tr><tr><th>11</th><th>A. Undefined B. Number C. Boolean D. Float</th><th></th></tr><tr><th>12</th><th>What is the correct syntax for referring to an external script called "LFC.js"?</th><th></th></tr><tr><th>12</th><th>A <script src="LFC.is"> B. <script source="LFC.Js"></th><th></th></tr><tr><th></th><th>C. <script ref="LFC.js"> D. <script type="LFC.js"></th><th></th></tr><tr><th>13</th><th>Use Experience designing is:</th><th></th></tr><tr><th></th><th>A. Deriving satisfaction from the use of technology B. Enhancing the usability of a</th><th></th></tr><tr><th></th><th>product C. Having the best user Interface design D. about successful and pleasurable</th><th></th></tr><tr><th></th><th>product</th><th></th></tr><tr><th>14</th><th>UX design is not A. Interaction design B. Wireframes and prototypes</th><th></th></tr><tr><th></th><th></th><th></th></tr><tr><th>1.4</th><th>C. Visual design D. Information architecture 5. Using an example, explain the CSS style components. [3 mar</th><th>ks]</th></tr><tr><th>13</th><th>5. Using an example, explain the C55 style compensation</th><th></th></tr><tr><th>10</th><th>6. Discuss the limitations of CSS. [3 mar</th><th>ks]</th></tr><tr><th></th><th></th><th>diel</th></tr><tr><th>1</th><th>7. Write the HTML code that can display list shown below: [4 mar</th><th>KS</th></tr></tbody></table></style>	

1. FESS
2. SCAI
a. BSc IT
i. Dip IT
ii. Cert IT
b. BSc Comp
3. SOBE
a. BAM
b. Fnance and economics

18. a. Write a JavaScript code to create a Fruits array with the following items: Oranges, Mangoes, Passion, Bananas, and pears [3 marks]

b. Using the array created above perform the following operation write JavaScript code to perform the following operation:

i.	Insert an Apple as the last item in the array.	[1 marks]
ii.	Reverse the order of the array items.	[1 marks]
iii.	Insert guava as the 3 rd item.	[1 marks]

QUESTION TWO [20 MARKS]

a. Write a JavaScript code to create an object. [2 marks]

b. In creating a JavaScript variable, you can use **var**, **let** and **const** keywords. Briefly explain the condition under which it is appropriate to use each of the keywords.

[6 marks]

- Create at least two variables, to output the following statement using JavaScript code in browser console. "The student who won the scholarship is a 24 year old Computer student from Kibabii University is John Doe". [6 marks]
- d. Write JavaScript code that will create an array, retrieved its length and use it to computer the mean of the array.
 [6 marks]

QUESTION THREE [20 MARKS]

a.	Explain the float property of CSS.	[2 marks]
	Explain four ways specifying colours in CSS	[4 marks]
	Using an example compare and contrast Id and class selectors.	[4 marks]
	Explain three advantages of using CSS.	[4 marks]
	Explain the CSS Box model and its elements.	[6 marks]

QUESTION FOUR [20 MARKS]

a.	Write a HTML code to insert a copyright symbol on a browser page.	[2 marks]
	With justifications, explain motivation for development of HTML5.	[4 marks]
C.	Write HTML code that creates a links to a sections within the same page.	[4 marks]
d.	Using HTML code example, differentiate between DIV and SPAN in HTML	? [4 marks]
	Write HTML code to output the table below.	[6 marks]

TABLE 1

Reg No.	Name	Gender	Course
PHY001	John Mark	Male	COMP
PHY002	Mary Leakey	Female	SCIE

QUESTION FIVE [20 MARKS]

a.	Compare and contrast UI and UX design		[8 marks]
	Briefly discuss web Information Architecture. [Hint: what, why, how	of IA]	[6 marks]
c.	Discuss the best Practices for designing a website interface.		