



(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS YEAR THREE SEMESTER ONE **EXAMINATIONS**

FOR THE DEGREE OF **BACHELOR OF SCIENCE** (CS & IT)

COURSE CODE:

BIT 312/CSC363E

COURSE TITLE: WEB TECHNOLOGIES II/

DATE: 15/07/2021

TIME: 2.00 P.M - 4.00 P.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO

QUESTION ONE [COMPULSARY] [30 MARKS]

. 1	An article element contains –
	A. Text or embedded content B. Image C. Audio D. None
2.	Which of the following is the correct syntax for referring the external style sheet?
	A. <style src="example.css"></th></tr><tr><th></th><th>B.<style src = "example.css" ></th></tr><tr><th></th><th>C. <stylesheet> example.css </stylesheet></th></tr><tr><th></th><th>D. < link rel="stylesheet" type="text/css" href="example.css"></th></tr><tr><th>3.</th><th>Which of the following is the correct syntax to make the background-color of all</th></tr><tr><th></th><th>paragraph elements to yellow?</th></tr><tr><th></th><th>A. p {background-color : yellow;} B. p {background-color : #yellow;}</th></tr><tr><th></th><th>C. all {background-color : yellow;} D. all p {background-color : #yellow;}</th></tr><tr><th>4.</th><th>If we want define style for an unique element, then which ess selector will we use?</th></tr><tr><th></th><th>A. Id B. text C. class D.name</th></tr><tr><th>5.</th><th>To make your website mobile friendly, you can make your website</th></tr><tr><th></th><th>A. Responsive B. Reactive C. Fast Loading D. Light</th></tr><tr><th>6.</th><th>Which of the following is true about JavaScript</th></tr><tr><th></th><th>A. It is a server side scripting language B. It is client side scripting language</th></tr><tr><th></th><th>C. It is a Software D. d) It is a database</th></tr><tr><th>7.</th><th>When users are involved in complex tasks, the demand on can be significant.</th></tr><tr><th></th><th>A. short-term memory B. shortcuts</th></tr><tr><th></th><th>C. objects that appear on the screen D. all of the mentioned</th></tr><tr><th>8.</th><th>Which type of JavaScript language is</th></tr><tr><th></th><th>A. Object-Oriented B. Object-Based C. Assembly-language D. High-level</th></tr><tr><th>9.</th><th>Which of the following JavaScript function of the String object returns the character in</th></tr><tr><th></th><th>the string starting at the specified position via the specified number of characters?</th></tr><tr><th></th><th>A. slice() B. split() C. substr() D. search()</th></tr><tr><th>1</th><th>0. In JavaScript the x = y statement implies that:</th></tr><tr><th></th><th>A. Both x and y are equal in value, type and reference address as well.</th></tr><tr><th></th><th>B. Both are x and y are equal in value only.</th></tr><tr><th></th><th>C. Both are equal in the value and data type.</th></tr><tr><th></th><th>D. Both are not same at all.</th></tr><tr><th></th><th>1. Which of the following is not JavaScript Data Types?</th></tr><tr><th></th><th>A. Undefined B. Number C. Boolean D. Float</th></tr><tr><th></th><th>Page 2 of 5</th></tr></tbody></table></style>

C. <script ref="</th><th>'LFC.js"> D.</th><th><script type="LFC.js"></th><th></th></tr><tr><td>13 Use Experience</td><td>e designing is:</td><td></td><td></td></tr><tr><td>A. Deriving sat product C. Hav</td><td>tisfaction from the use of tech ring the best user Interface de</td><td>nnology B. Enhancing tesign D. about successfu</td><td>he usability of a all and pleasurable</td></tr><tr><td>product</td><td></td><td></td><td></td></tr><tr><td>14. UX design is n</td><td>iot</td><td>Lambatanas</td><td></td></tr><tr><td>A. Interaction</td><td>440.8</td><td>rames and prototypes</td><td></td></tr><tr><td>C. Visual desi</td><td></td><td></td><td>12 mankel</td></tr><tr><td>15. Using an exan</td><td>nple, explain the CSS style co</td><td>omponents.</td><td>[3 marks]</td></tr><tr><td>16. Discuss the li</td><td></td><td></td><td>[3 marks]</td></tr><tr><td>17. Write the HT</td><td>ML code that can display list</td><td>shown below:</td><td>[4 marks]</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td>b. BSc (3. SOBE a. BAN</td><td>i. Dip IT ii. Cert IT Comp</td><td></td></tr><tr><td>William Io</td><td>vaScript code to create a Fru</td><td>its array with the following</td><td>ing items: Oranges,</td></tr><tr><td></td><td></td><td></td><td>[3 marks]</td></tr><tr><td>Mangoes, Pa</td><td>assion. Bananas, and pears array created above perform</td><td>the following operation</td><td>write JavaScript code to</td></tr><tr><td></td><td></td><td>the folio (i.i.g)</td><td></td></tr><tr><td></td><td>following operation:</td><td>the opposi</td><td>[1 marks]</td></tr><tr><td></td><td>rt an Apple as the last item in</td><td></td><td>[1 marks]</td></tr><tr><td></td><td>erse the order of the array ite</td><td>ms.</td><td>[1 marks]</td></tr><tr><td>iii. Inse</td><td>rt guava as the 3rd item.</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></tbody></table></script>

12. What is the correct syntax for referring to an external script called "LFC.js"?

A. <script src="LFC.js">

B. <script source="LFC.js">

D. <script type="LFC.js">

QUESTION TWO [20 MARKS]

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]

- c. 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 [6 marks] student from Kibabii University is John Doe".
- d. Write JavaScript code that will create an array, retrieved its length and use it to [6 marks] computer the mean of the array.

QUESTION THREE [20 MARKS]

a.	Explain the float property of CSS.	[2 marks	

- [4 marks] b. Explain four ways specifying colours in CSS [4 marks]
- Using an example compare and contrast ld and class selectors.

[4 marks]

d. Explain three advantages of using CSS.

e. Explain the CSS Box model and its elements.

[6 marks]

QUESTION FOUR [20 MARKS]

- 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]

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]
- b. Briefly discuss web Information Architecture. [Hint: what, why, how of IA] [6 marks]
- c. Discuss the best Practices for designing a website interface. [6 marks]