



(Knowledge for Development)

KIBABII UNIVERSITY
(KIBU)

UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR

SPECIAL/SUPPLEMENTARY EXAMINATIONS
YEAR TWO SEMESTER TWO EXAMINATIONS

FOR THE DEGREE IN
(INFORMATION TECHNOLOGY)

COURSE CODE : BIT 222
COURSE TITLE : WEB TECHNOLOGIES I

DATE: 15/02/2021

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. HTML is what type of language ?
A. Scripting Language B. Markup Language C. Programming Language D. Network Protocol
2. HTML uses
A. User defined tags B. Pre-specified tags
C. Fixed tags defined by the language D. Tags only for linking
3. The year in which HTML was first proposed _____.
A. 1990 B. 1980 C. 2000 D. 1995
4. Fundamental HTML Block is known as _____.
A. HTML Body B. HTML Tag C. HTML Attribute D. HTML Element
5. Apart from `` tag, what other tag makes text bold ?
A. `<fat>` B. `` C. `<black>` D. `<emp>`
6. HTML web pages can be read and rendered by _____.
A. Compiler B. Server C. Web Browser D. Interpreter
7. Tags and texts that are not directly displayed on the page are written in _____ section.
A. `<head>` B. `<title>` C. `<body>` D. `<html>`
8. If we want define style for an unique element, then which css selector will we use ?
A. Id B. text C. class D. name
9. Which of the following HTML table tags are correct.
A. `<Table><TR><TD>Some text</TD></TR> </Table>` B. `<Table> <TR> <TD>Some text<TD></TR> </Table>`
C. `<Table><TR><TD>Some text</TD></TR> <Table>` D. `<Table><TR><TD>Some text</TD></TR></Table>`
10. Which element is used in the `<HEAD>` section on an HTML / XHTML page, if we want to use an external style sheet file to decorate the page ?
A. `<src>` B. `<link>` C. `<style>` D. `<css>`
11. Which attribute can be added to many HTML / XHTML elements to identify them as a member of a specific group ?
A. Id B. div C. class D. span
12. When we write ``, what "img.png" inside double quote implies?
A. element B. attribute C. value D. operator
13. How can we write comment along with CSS code ?
A. `/* a comment */` B. `// a comment //` C. `/ a comment /` D. `<' a comment'>`
14. How will you make all paragraph elements 'RED' in color ?
A. `p.all {color: red;}` B. `p.all {color: #990000;}` C. `all.p {color: #998877;}` D. `p {color: red;}`
15. Which type of JavaScript language is _____
A. Object-Oriented B. Object-Based C. Assembly-language D. High-level
16. The "function" and " var" are known as:
A. Keywords B. Data types C. Declaration statements D. Prototypes
17. JavaScript is ideal to _____.
A. make computations in HTML simpler B. minimize storage requirements on the web server
C. increase the download time for the client D. increase the loading time of the website
18. JavaScript can be written _____.
A. directly into JS file and included into HTML B. directly on the server page
C. Directly into HTML pages D. directly into the css file
19. PHP is an example of _____ scripting language.
A. Server-side B. Client-side C. Browser-side D. In-side

20. What will be the output of the following JavaScript code?

```
<p id="demo"></p>
var txt1 = "good";
var txt2 = "day";
document.getElementById("demo").innerHTML = txt1 + txt2;
```

A. good day B. goodday C. error D. undefined

21. Which of the following is not JavaScript Data Types?

A. Undefined B. Number C. Boolean D. Float

22. Which is the correct CSS syntax?

A. body:color=black B. {body;color:black}
C. {body:color=black(body} D. body {color: black}

23. How can you make a list that lists the items with numbers?

a) ol B. dl C. ul D. list

24. How do you make a list that lists its items with squares?

A. type: square B. list-type: square C. type: 2 D. list-style-type: square

25. In what form are style rules presented?

A. selector {property: value} B. selector {property= value}
C. selector (property: value) D. selector (property= value)

26. Where in the HTML document is the correct place to refer to an external style sheet?

A. In the section B. At the top of the document
C. In the section D. At the end of the document

27. What is the HTML tag under which one can write the JavaScript code?

A) <javascript> B) <scripted> C) <script> D) <js>

28. Which of the following is the correct syntax to display "BIT 222" in an alert box using JavaScript?

A. alertbox("BIT 222");
B. msg("BIT 222");
C. msgbox("BIT 222");
D. alert("BIT 222");

29. What is the correct syntax for referring to an external script called "BIT222.js"?

A. <script src="BIT222.js">
B. <script href="BIT222.js">
C. <script ref="BIT222.js">
D. <script name="BIT222.js">

30. Predict the output of the following JavaScript code.

```
<script type="text/javascript" language="javascript">
var x=5;
var y=6;
var res=eval("x*y");
document.write(res);
</script>
```

A. "30" B. 30 C. 5*6 D. "5*6"

QUESTION TWO [20 MARKS]

a. Briefly explain the concept of CSS.

[2 marks]

- b. Explain using a code example how the DRY principle: Don't Repeat Yourself can be implemented in CSS style. [3 marks]
- c. Briefly explain any **THREE** advantages of employing CSS in your websites. [6 marks]
- d. Write a simple HTML code that adds the external, internal and inline CSS style to a web page. Clearly label the three styles. [9 marks]

QUESTION THREE [20 MARKS]

- a. Explain what HTML is. [3 marks]
- b. Explain TWO new tags provided by HTML5 [4 marks]
- c. Explain the hierarchy that is followed in HTML document implementation when it comes to style sheets? [3 marks]
- d. How do you create text on a webpage that will allow you to send an email when clicked? [3 marks]
- e. Write an HTML table tag sequence that outputs Table 1: [7 marks]

Table 1: SCAI Programmes

Department	Programmes
IT	MSc IT
	BSc IT
Computer Science	MSc Computer Science
	BSc Computer Science

QUESTION FOUR [20 MARKS]

- a. Explain what JavaScript is. [3 marks]
- b. Outline four advantages of JavaScript. [4 marks]
- c. Write a simple JavaScript code that will display the statement "Hello World" in a browser. Include a comment in your code. [4 marks]
- d. ways in which you can use to place JavaScript in HTML File. [3 marks]
- e. Using examples describe TWO ways which you can use to display JavaScript data. [6 marks]

QUESTION FIVE [20 MARKS]

- a. Explain Document Object Model as used in website development. [4 marks]
- b. With the object model, JavaScript gets all the power it needs to create dynamic HTML. Explain three types of content of a web page that JavaScript can change in the process of creating dynamic HTML. [6 marks]
- c. Briefly discuss HTML DOM [5 marks]
- d. Describe the DOM Programming Interface. [5 marks]