



(Knowledge for Development)

KIBABII UNIVERSITY

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UNIVERSITY EXAMINATIONS 2021/2022 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:28/07/2022

TIME: 11AM-1PM

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSARY) [30 MARKS]

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A. margin, border, padding, content B. content, margin, border, padding C. border, margin, content, padding D. content, padding, border, margin e) padding, content, margin, border 16. How is everything treated in HTML DOM? A. Node B. Attributes C. Elements 17. What is the work of the form control elements in the HTML DOM? D. Arrays A. User Interface elements B. All the possible elements C. Debugging elements D. Collecting elements 18. How are the objects organized in the HTML DOM? A. Class-wise B. Queue C. Hierarchy 19. What is the HTML tag under which one can write the JavaScript code? D. Stack A) <javascript> B) <scripted> C) <script> D) <js> 20. Which of the following is the correct syntax to display "BIT 222" in an alert box using A. alertbox("BIT 222"); B. msg("BIT 222"); C. msgbox("BIT 222"); D. alert("BIT 222"); 21. 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"> 22. 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" 23. Which of the following is not JavaScript Data Types? A. Undefined B. Number C. Boolean 24. Which of the following is correct about features of JavaScript? D. Float A. It cannot Handling dates and time B. JavaScript is a object-based scripting language. C. JavaScript is not interpreter-based scripting language D. All of the above 25. Choose the correct JavaScript syntax to change the content of the following HTML code. A. document.getElement ("letsfindcourse").innerHTML = "I am a letsfindcourse";

- B. document.getElementById ("letsfindcourse").innerHTML = "I am a letsfindcourse";
- C. document.getId ("letsfindcourse") = "I am a letsfindcourse";
- D. document.getElementById ("letsfindcourse").innerHTML = I am a letsfindcourse;
- 26. The following is a web-page:

```
<html>
   <head> <title>JavaScript</title> </head>
    <body bgcolor=""#0000ff"">
      <script language=""JavaScript"">
         <!-- document.write(""<h1> hello world </h1>""); //-->
      </script>
   </body>
</html>
```

- 27. When the above web page is loaded into a browser, what will happen?
 - a. The body of the web page will not contain any text
 - b. The body of the web page will contain the text "hello world" as an H1 heading
 - c. The background color of the web page will be green
 - d. document.write("<h1> hello world </h1>"); is a comment.
- 28. Which HTML element is used to define multi-line input field?
 - A. Text B. Textarea C. Blocktext D. Textfields
- 29. Action attribute in HTML form specifies that
 - A. Which HTTP Method is used
- B. Which action is going on
- C. Where to submit form
- D. The autocomplete form
- 30. For creating a drop-down list in HTML form which element is suitable?
 - A. <List>
- B. <Drop down>
- C. <Select> D. All the above

QUESTION TWO [20 MARKS]

- a. Briefly explain the concept of CSS.
- b. Briefly explain any four advantages of employing CSS in your websites. [2 marks]
- c. Describe the components of a CSS Style.

[8 marks] [6 marks]

d. Distinguish between Classes and IDs as used in CSS.

[4 marks]

QUESTION THREE [20 MARKS]

- a. An anchor tag is used for links in a web page. Write the syntax for anchor tags for the following links.
 - i. Hyperlinks

[1 mark]

ii. sending emails

[1 mark]

- Explain any three types of content that go into the <head> ... </head> of an HTML web page.
- c. Compare and contrast the <div> ... </div> and ... tags as used in HTML web page.
- d. Write HTML code to display Table 1. [4 marks]

Table 1: SCAI Programmes

Department	Programmes
IT	PHD IT
	MSc IT
	BSc IT
	Dip IT
	Cert IT
Computer	MSc Computer
Science	Science
	BSc Computer
	Science

QUESTION FOUR [20 MARKS]

- e. Describe two ways in which you can work with JavaScript in your web page. [4 marks]
- f. JavaScript presents numerous advantages in website development. Explain how the following advantages are realized through application of JavaScript.
 - i. Minimalized server interaction

[2 marks]

ii. Richer, user-friendly interfaces

- g. Write a simple JavaScript code that will display the statement "Hello World" in a browser.

 Include a comment in your code.

 [4 marks]
- h. Write a JavaScript code that computes the value of variable z, where z=x+y, and display in a browser. The variables x, y, and z can be assigned different values. [8 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]