

WOMEN'S UNIVERSITY IN AFRICA



Addressing gender disparity and fostering equity in University Education

FACULTY OF MANAGEMENT AND ENTREPRENEURIAL SCIENCES

BSc HONOURS DEGREE IN INFORMATION SYSTEMS

MAIN PAPER

IS223: WEB GRAPHICS AND JAVA SCRIPTING

INTAKE 24: SECOND YEAR SECOND SEMESTER

TIME:2 HOURS MORNING

INSTRUCTIONS TO CANDIDATES

Answer any **four** questions.

Question 1

- a) Identify the purpose of the following text and list the elements that make it up
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"

"http://www.w3.org/TR/html4/loose.dtd">. [12]

- b) Using JavaScript, create a page that displays different messages according to time of the day. It must display “Good Morning” if the time of the day is less than 12:00PM, “Good Afternoon” if the time is between 12:00PM [13]

Question 2

- a) When clicked a prompt box should appear requesting the user to input a “NAME” and after clicking OK, the webpage should read “Hello “name”! How are you today?” [10]

- b) Create a form shown below. When the “Show Full Name“ button is clicked, the full name text box must show the name and surname together [15]

NAME BUILDER	
First Name	<input type="text" value="Jayden"/>
Last Name	<input type="text" value="Mucha"/>
Full Name	<input type="text" value="Jayden Mucha"/>
<input type="button" value="Show Full Name"/>	

Question 3

- a) Explain any 4 desirable qualities of a good website [8]

- b) Discuss the three main components of a DNS [6]

- c) There are two types of URL, Absolute and Relative.

- i. Explain the components of a URL giving an example. [5]

- ii. Clearly explain the differences between the two URLs giving example for each.

[6]

Question 4

- a) Describe the 20x message response types from the server. [5]
- b) What are the four basic operations specified by a browser that HTTP supports? [6]
- c) Briefly describe four major uses of JavaScript on the client side. [4]
- d) Explain the significance of any two predefined objects of JavaScript. [4]
- e) Give the output of the following code segment: [6]

```
<BODY>
<SCRIPT LANGUAGE="JavaScript">
var sum = new Array(6);
var Total = 0;
sum[0] = 0;
for(var icount = 1; icount < 4; icount++)
{
Total += icount;
sum[icount] = Total;
document.write(sum[icount]+"<br>")
}
document.write(Total)
</SCRIPT>
<BODY>
```

Question 5

- a) Explain the basic functions of a web server. [10]
- b) Consider the following web page layout:

Enter the details

Enter your nationality:

Enter your age:

Following is the HTML code for the above web page.

```
<HTML>
<BODY>
<H1>Enter the details</H1>
```

<FORM NAME="frm1">

Enter your nationality:

<INPUT TYPE="Text" NAME="txtNat" SIZE="20">

Enter your age:

<INPUT TYPE="Text" NAME="txtAge" SIZE="2">

<INPUT TYPE="Button" NAME="BSubmit" VALUE="Send details">

</FORM>

</BODY>

</HTML>

Write the JavaScript code to be embedded in the above HTML code for the click event of the button which will display the alert message “Eligible for Voting” if the following validations are true:

- i. The age should be numeric and should be more than 18 [5]
- ii. The nationality should be “Zimbabwean” [5]
- iii. The alert message “Not eligible to vote” should be displayed if any of the above mentioned validations are false. [5]

Question 6

- a) Compare and contrast the features of HTML, DHTML and XML [6]
- b) Compare and contrast the Ajax and JavaScript. [4]
- c) Reproduce the following [15]

	I.C.T Course List	
CERTIFICATE IN IT	Principles of Accounts	1 year
	Business Information Systems	
	Business Communication	
DIPLOMA IN IT	Data Communication	3 years
	Systems Analysis and Design	
	Software Engineering	
DEGREE IN IT	Visual C++	4 Years
	Web Graphics	
	Computer Auditing	

END