UNIVERSITY OF GHANA

B.A/BSe SECOND SEMESTER UNIVERSITY EXAMINATIONS: 2014/2015

CSIT 208: MULTIMEDIA AND WEB DESIGN (3 CREDITS)

INTRODUCTION:

*ANSWER **ALL** Questions in Section **A:** and any **THREE** Questions in Section **B:***

TIME ALLOWED:

TWO AND HALF ($2\frac{1}{2}$) HOURS

SECTION A [40 Marks]
Compulsory — Answer *all* questions

A L

Assume that a folder containing the contents of a webpage is provided to you. This folder contains "index.html" file, a "css" folder with "main.css" file inside it, an "image" folder with "plc' .png" in it and a "javascript" folder with "main.js" file. All your HTML code should be added to "index.html" file, all your CSS rules should be added to "main.css" file and all JavaScript codes should be added to "main.js".

You are REQUIRED to:

Design a web page that makes efficient use of both javascript and CSS along with the HTML. This page should have a well formatted form that accepts the user's first name, surname, age, and email address. Upon submission, a confirmation dialog box should ask user if he wants to proceed. Upon accepting an alert should show that the form has been successfully submitted.

(20 marks)

A2 What is multimedia?

(1 mark)

A3 List six criteria for the classification of a medium.

(6 marks)

A2.

Give any three differences between linear and non-linear multimedia with examples

(3 marks)

A3.

Write HTML codes behind the table below.

Name	Telephon	
Kweku Ohene	0241 563 396	0277 258 438
Kwame Osei	0244 772 854	0266 778 899
Nana Yaw	0245 766 888	0202 123 543

SECTION B (60 Marks]
Answer any THREE questions
(Each question carries an equal mark of 20)

B1.

a. Write an HTML document with JavaScript that accepts three integers a, b and c. And calculates the

i. Complex root (x)
ii. Real root (x)
iii. Equal root (x)

of a quadratic equation, using the equation below.

$$X = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

It should be able to alert the user with the value of x or x I or x2 respectively.

(10 marks)

b. Write an HTML code for linking a CSS file (maincss.css) to an HTML document

(5 marks)

c. Define HTML and give the basic structure of an HTML document.

(5 marks)

B2.

a. What are the differences between HTML, CSS and JavaScript

(3 marks)

b. Briefly explain how do they fit in web design?

(2 marks)

c. Write a code to link a JavaScript file to an HTML document.

(5 marks)

d. What will be displayed in the browser when this code runs?

```
<htinl>
    <head>
        <title>My Test</title>
        <script type= "text/javascript">
                var myobj = tfname: "Kweku", lname:"Osei", height:"5\"6' ", weight:"79 kg");
                document.write("<table border V' 1 1" style =1" width:50%1" ><tr>");
                for (x in myobj )(
                        document.write("<td>"-Finyobj[x]+"</td>");
                }
                document.write("</table></tr>");
        </script>
    </head>
    <body>
    </body>
</html>
```

(10marks)

B 3 .

a. What is a DOM? **(1 mark)**

b. Using an event handler, write JavaScript code that alerts the user when he clicks away from a text box.

(4 marks)

c. Write a JavaScript function that accepts two integer parameters, adds them and returns the sum.

(5 marks)

d. Draw the DOM hierarchy of this HTML document

```
<html>
        <head>
                <title>An Example</title>
                <script type="text/javascript">
                        document.write("This is javaScript");
                </script>
        </head>
        <body>
                <h3><hr>An Example</h3>
                <p align="left">
                        <font face="Comic Sans MS" size="4">
                                <b> Hello World! </b>
                        </font>
                </p>
                <p al ign=" right">
                        <font size="5">
                                <u>1 am 21.</u>
                        </font>
</p>
<p>
                        <ol type="1" start=7>
                                <I i><font color=#OOFFOO>Green</font></li>
                                <I i>Yel low</li>
                                <ul type=square>
                                <li>John</li>
                                <I i>Mike</li>
                        </ul>
                        <01>
                </p>
        </body>
</html>
```

(10 marks)

B4.

a. What is a cookie? **(2 marks)**

b. Create a cookie that stores the name of a visitor. The first time a visitor arrives to the web page, he will be asked to fill in his name. The name is then stored in a cookie. The next time the visitor arrives at the same page, he will get a welcome message.

i. A function to set a cookie value

(6 marks)

ii. A function to get a cookie value

(6 marks)

iii. A function to check a cookie value

(6 marks)