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UNIVERSITY EXAMINATIONS 2023/2024

FIRST YEAR, SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS INFORMATION TECHNOLOGY

CIB 3151: FUNDAMENTALS OF WEB DESIGN

DATE: APRIL 2024   TIME: 2 HOURS

INSTRUCTIONS: Answer Question ONE and any other TWO questions.

QUESTION ONE (30 MARKS)

a) Describe any four components required to access internet.   [4 Marks]

b) Describe the purpose of the following protocols.   [4 Marks]

    i.   HTTP

    ii.   SMTP

c) Describe the purpose of a web browser giving 2 examples of existing web browsers. [2 Marks]

d) Use examples to elaborate any 2 ways of applying a color to an element   [4 Marks]

e) Write down the tags to format a heading to blue color, red background, bold and border of 2 pixels.   [4 Marks]

f) Use examples to describe the following types of CSS.   [6 Marks]
    i.   Inline CSS
   ii.   Internal CSS
  iii.   Extemal CSS.

g) Write html tags to insert an image called image.jpg page into with 100 height and 80 pixels width.   [6 Marks]

QUESTION TWO (20 MARKS)

a) Differentiate between the following. [4 Marks]

    i.   Id and class selectors

    ii.   Element+element and element>element selectors

b) Write CSS to apply solid border, yellow background color and margins of 1 PX to div element.

    [6 Marks]

c) Use an example to illustrate the purpose of the following elements. [4 Marks]

    i.   <div>

    ii.   <span>

d) Write HTML script to display the table below, specifying the width and border attributes to 50% and 5% respectively. [6 Marks]

STUDENT NAMES		
Reg. Number	**Name**	**Admission Date**
1001	Peter	09/01/2014
1002	Mary	10/01/2014

QUESTION THREE (20 MARKS)

a) Describe the 2 most common ways of sub-dividing a page into sections. [4 Marks]

b) Highlight four factors to be considered when adding an image on your web page

    [4 Marks]

c) Write a CSS to apply red color, Tahoma, bold and size 14 to a paragraph. [4 Marks]

d) Briefly explain the meaning of each line in CSS style below: [6 Marks]

```
body {
background-image: url(star.gif);
}
span {
background-image: url(dot.gif);
background-repeat: no-repeat;
background-position: center 300px
padding: 2em;
border: 4px dashed;
}
```

QUESTION FOUR (20 MARKS)

a) Outline four communication services provided by internet.   [4 Marks]

b) Write a CSS style to create three flexible columns on a web page.   [3 Marks]

c) Write HTML code that will create a link to a HTML document named "first.html"

[3 Marks]

d) What will be the effect of the following CCS style to the identified element?   [6 Marks]

```
#products {
background-color: #FFF;
line-height: 1.5em;
padding: 1em 2%;
border: double #FFBC53;
margin: 0 2% 1em;
float: left;
width: 55%;
}
```

e) Write HTML script to insert an image ".. . image.jpg" with defined width of 100 and height of 80. If the picture is not displayed a message "My Picture "should be displayed.   [4 Marks]

QUESTION FIVE (20 MARKS)

a) Write HTML script to design a page divided into two sections. The upper section should be colored yellow to carry the Headings while the lower section should contain an c ordered list of your choice.   [6 Marks]

b) Write HTML script to display the list below and use CSS to apply capital roman to number the list.   [4 Marks]

    i.   BIT
   ii.   BCS
  iii.   BMC
   iv.   BBIT

c) Write CSS script that will change the color of a link when the user hovers, clicks or visit a links.   [6 Marks]

d) Briefly explain the importance of using relative measurements such as percentage and em as compared to pixels.   [4 Marks]