



School of Computing and Information Systems

**PROGRAMME: BSC BUSINESS INTELLIGENCE AND DATA ANALYTICS, BSC COMPUTER SYSTEMS
ENGINEERING, MTEC, BSC APPLIED BUSINESS COMPUTING**

- WEB AND MULTIMEDIA DEVELOPMENT Year 2 Semester 2

Assessment Test Marking Guide

Date: 31 March 2021

Time: 08:00 – 12:00

Total Marks: 100

Duration: 4hrs

Instructions to candidates

1. Candidates must attempt all FOUR(4) questions
2. Candidates attempting to gain unfair advantage or colluding in any way whatsoever are liable to be disqualified.
3. Candidates are allowed to bring textbooks, lecture notes, online resources into the examination environment
4. Download both Examination Question Paper and the Examination Answer Booklet on to your computer
5. Write your answers in the answer booklet provided with this question paper.
6. Append your signature and ID number at the bottom of your Examination Answer Booklet as acknowledgement the submitted work as your own.
7. Submit your work in PDF, or Word format
8. Submit the Examination Answer Booklet ONLY as one document on Turnitin on the submission bin provided.
9. Should you encounter a challenge please email immediately at the emails below;
Module leader: kentsenaob@bac.ac.bw Module Assessor: tshepog@bac.ac.bw

This paper consists of 5 printed pages including this cover page.

QUESTION 1

Use the sample code below to answer the following questions.

```
<html>
<head><title> Home </title></head>
<body bgcolor = "#FBF5EF">
<a href = "#">Home</a>
<a href = "#">About Us</a>
<a href = "#">Our Courses</a>
<a href = "Staff.html">Our Staff</a>
<a href = "#">Student Life</a>
<h1 align = "center"> Welcome to BAC</h1>
<p>Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla consequat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu. In enim justo, rhoncus ut, imperdiet a, venenatis vitae, justo. Nullam dictum felis eu pede mollis pretium. Integer tincidunt. Cras dapibus. Vivamus elementum semper nisi. <b>Aenean vulputate eleifend <i>tellus</i>.</b> <br/> Aenean leo ligula, porttitor eu, consequat vitae, eleifend ac, enim. Aliquam lorem ante, dapibus in, viverra quis, feugiat a, tellus. Phasellus viverra nulla ut metus varius laoreet. Quisque rutrum. Aenean imperdiet. Etiam ultricies nisi vel augue. Curabitur ullamcorper ultricies nisi. Nam eget dui. Etiam rhoncus. Maecenas tempus, tellus eget condimentum rhoncus, sem quam semper libero, sit amet adipiscing sem neque sed ipsum. Nam quam nunc, blandit vel, luctus pulvinar, hendrerit id, lorem. Maecenas nec odio et ante tincidunt tempus. Donec vitae sapien ut libero venenatis faucibus. Nullam quis ante. Etiam sit amet orci eget eros faucibus tincidunt. Duis leo. Sed fringilla mauris sit amet nibh. Donec sodales sagittis magna. Sed consequat, leo eget bibendum sodales, augue velit cursus nunc, </p>
<p>Etiam ultricies nisi vel augue. Curabitur ullamcorper ultricies nisi. Nam eget dui. Etiam rhoncus. Maecenas tempus, tellus eget condimentum rhoncus, sem quam semper libero, sit amet adipiscing sem neque sed ipsum. Nam quam nunc, blandit vel, luctus pulvinar, hendrerit id, lorem. Maecenas nec odio et ante tincidunt tempus. Donec vitae sapien ut libero venenatis faucibus. Nullam quis ante. Etiam sit amet orci eget eros faucibus tincidunt. Duis leo. Sed fringilla mauris sit amet nibh. Donec sodales sagittis magna. Sed consequat, leo eget bibendum sodales, augue velit cursus nunc, </p><h2 align = "center">Our mission</h2><p align = "right">Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla consequat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu.</p> <table align = "center" cellspacing = "4" cellpadding = "4"><thead><tr><th>Center no</th><th>Population</th><th>available courses</th><th>Location</th></tr></thead><tbody><tr><td>001</td><td>10000</td><td>6</td><td>Gaborone</td></tr><tr><td>002</td><td>5000</td><td>3</td><td>Ftown</td></tr><tr><td>003</td><td>5000</td><td>3</td><td>Lobatse</td></tr></tbody></table>
</body>
```

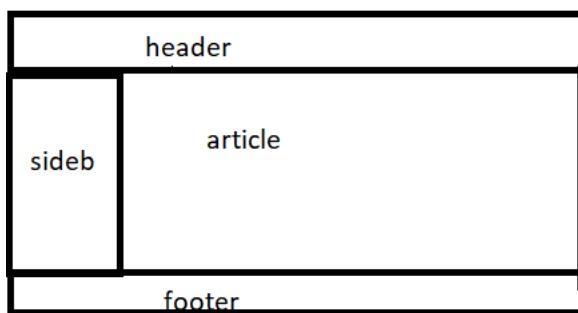
- Does this code below comply with html5 standards, support your answer with relevant examples from this code above? **[5 marks]**
- Differentiate between html5 and html4. **[2 marks]**

-
- c. Have CSS been used in the code above, if so what kind of CSS have been used? **[2 marks]**
 - i. Give 3 instances where that CSS have been applied and explain them in detail. **[6 marks]**
 - d. Draw a sketch of how the code above will look like in a webpage. **[10 marks]**

QUESTION 2

- a. The webmaster for BAC website has resigned after creating the content as in question 1. The school have hired you to improve the look and feel of the webpage. You decided to work on the layout first, draw a wireframe that includes the header, sidebar, content, and footer. Without using css, edit the code in question 1 above to realize your wireframe design.

[8 marks]

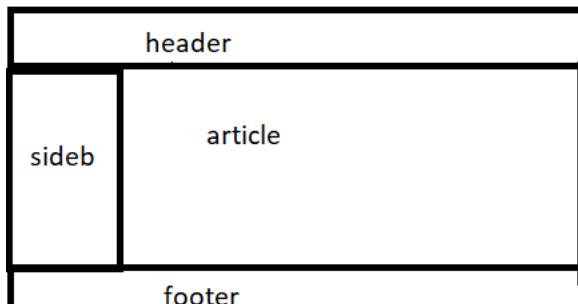


- b. Write an external CSS for the layout above. **[8 marks]**
- c. The school informs you that they want the website to accessible in different platforms, how would you incorporate their concerns (screen resolution dilemma) in your design. **[5 marks]**
- d. Explain what whitespaces are, and why you will incorporate them in your design. **[2 marks]**
- e. Suppose the website you have created has been approved by the BAC board and it must be hosted how will you identify the best web hosting (hosting checklist) service. **[2 marks]**

QUESTION 3

- a. After your work in BAC as a web designer you have been appointed as a manager by a big web consultancy firm that develops websites for several high-profile companies. As a manager one of your duties is to assemble a website development team. List at least 5 posts you would create. **[5 marks]**
- b. An entertainment and news client wants your webservices. The team sits together to organize the information, discuss 3 organizing information structures that are appropriate. **[6 marks]**
- c. Of the 3 above select decide on the best structure and give reasons to support your choice. **[4 marks]**
- d. Consider the <https://zm-vle-uu.unicaf.org/login/index.php> url, identify the protocol, domain name, path and file from it. **[4 marks]**

Use the following wireframe to answer questions below.



- e. Write an external CSS code to achieve this layout design. Focus only on the CSS not the html code. **[6 marks]**

QUESTION 4

Consider the following code snippet when answering the questions below.

```
<html>
  <head>
    <title> Our Staff </title>
  </head>
  <body bgcolor = "#FBF5EF">
    <a href = "home.html">Home</a>
    <a href = "#>About Us</a>
    <a href = "#>Our Courses</a>
    <a href = "#>Our Staff</a>
    <a href = "#>Student Life</a>
    <h1 align = "center"> Senior Management</h1>
    <img src = "1.png" alt = "DED" height = 250 width=250>
    <img src = "2.png" alt = "Head of finance" height = 250 width=250>
    <img src = "3.jpg" alt = "Head of HR" height = 250 width=250>
    <img src = "4.jpg" alt = "Director of SCIS" height = 250 width=250>
    <h2 align = "center">School Of Computing Staff</h2>
    <img src = "1.png" alt = "1" height = 250 width=250>
    <img src = "2.png" alt = "2" height = 250 width=250>
    <img src = "3.jpg" alt = "3" height = 250 width=250>
    <img src = "4.jpg" alt = "4" height = 250 width=250>
    <img src = "5.jpg" alt = "5" height = 250 width=250>
    <img src = "6.jpg" alt = "7" height = 250 width=250>
    <img src = "7.jpg" alt = "6" height = 250 width=250>
    <img src = "4.jpg" alt = "8" height = 250 width=250>
  </body>
</html>
```

- a. Suppose this file containing this code was in directory C:/User/kamogelo/myfirst website. Will it still run without errors? [2 marks]
- b. Suppose images {1.png, 2.jpg, 3.png, 4.jpg, 5.jpg, 6.png, and 7.png} are in the same directory as in question 4a, produce a sketch (or wireframe) of how the webpage will look like. [8 marks]
- c. To clean-up the coding environment you chose to create a folder named "imgs" in C:/User/kamogelo/myfirst website directory and move all images {1.png, 2.png, 3.jpg, 4.jpg, 5.jpg, 6.jpg, and 7.jpg} there. Do you think the web page will show all the images if your answer is no, modify the code above to accommodate for these changes? [6 marks]
- d. With the aid of example, illustrate 3 types of CSS. [6 marks]
- e. In CSS differentiate between absolute and relative units. [3 marks]