



“Investing in Africa’s Future”

COLLEGE OF BUSINESS, PEACE, LEADERSHIP AND GOVERNANCE

NCIS403 WEB APPLICATION DEVELOPMENT

END OF FIRST SEMESTER EXAMINATION

NOVEMBER/DECEMBER 2022

LECTURER: MR O MAGWAGWA

TIME: 3HOURS

INSTRUCTIONS

You are required to answer questions as instructed in each section

Start **each** question on a new page in your answer booklet

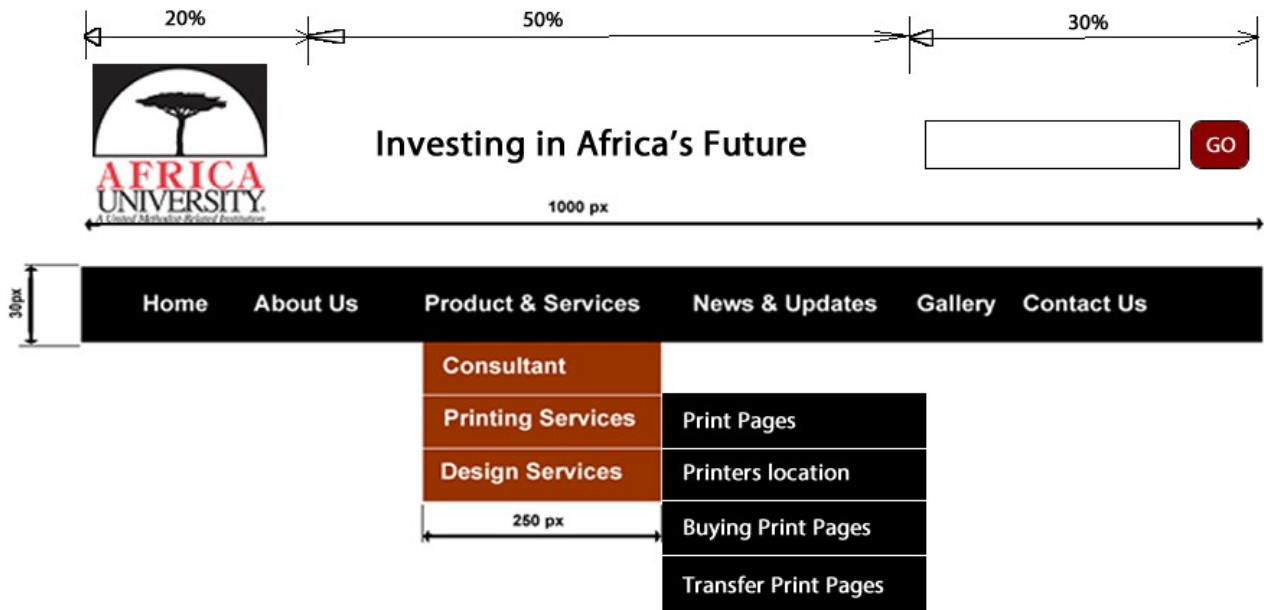
Answer all questions in **Section A**

Answer any Two (2) questions from **Section B**

Credit will be awarded for logical, systematic and neat presentations

SECTION A

QUESTION ONE



The above image is the proposed menu for the Africa University Print Press Website. Produce the HTML and CSS code for the menu. Use a separate CSS to the index file and the name of the CSS is style.css. Use the width and height dimensions indicated at the edge of the image.

Additional information:

Background color for top level - #990000

Background color for dropdown level - #ffcc00

Padding on menu links - 15px

Menu font size is 15px

Logo: logo.png

Links

Home - index.html; About - about.html; Product & Services - services.html; News & Update - news.html; Gallery- gallery.html; Contact Us - contact.html; Consultant – consultant.html; Printing Services – print.html; Design Services – design.html

[25 Marks]

QUESTION TWO

Salutation

--None-- ▼

First name:

Last name:

Gender : ☐ Male ☐ Female

Email:

Address :

Submit

The above image is a registration form to social media driven website with a MySQL Database.

Additional information:

Database Host: localhost

Database username: root

Database password: root

Database name: staffregistration

Salutation dropdown: ddsalutation

First Name textfield : txtFName

Last Name textfield : txtLName

Gender radio button :radioGender

Email textfield : txtEmail

Address textarea: txtAddress

a) Discuss the importance of forms to a website

[5 Marks]

b) Write the HTML code that generates the Form in the diagram above

[8 Marks]

- c) Generate a MySQL script that creates a table called *Registration* with the following columns
- i. id - which auto increments and primary key
 - ii. firstname - VARCHAR(50)
 - iii. salutation - VARCHAR(10)
 - iv. lastname - VARCHAR(50)
 - v. gender - VARCHAR(50)
 - vi. email - VARCHAR(50)
 - vii. address- VARCHAR(100)
 - viii. time created – Timestamp **[5 Marks]**
- d) Produce validation for fields firstname and lastname, making them mandatory **[2 Marks]**
- e) Email field validation to make sure it is an email (*Using JavaScript*) **[5 Marks]**
- f) Produce PHP code to connect to a MySQL database and confirming connection has been established **[5 Marks]**
- g) Produce PHP code that creates a new record in the database table **[5 Marks]**

SECTION B

QUESTION THREE

- a) What is Web Presence? **[4 Marks]**
- b) Discuss in-depth the Web Presence Aspects **[16 Marks]**

QUESTION FOUR

- a) What is MVC in programming **[5 Marks]**
- b) Discuss how it could be used while developing web applications? **[15 Marks]**

QUESTION FIVE

- a) What is Web application Integration **[5 Marks]**
- b) What is an API **[5 Marks]**
- c) With the aid of an example explain how the API can be used to integrate systems and the benefits using such **[10 Marks]**

QUESTION SIX

- a) Discuss the difference between GET and POST (Clear show how they work)[7 Marks]
- b) List any three reason why you create a website [9 Marks]
- c) Discuss the two methods to increase visibility of a website [4 Marks]

END OF PAPER
