

# COLLEGE OF BUSINESS, PEACE, LEADERSHIP AND GOVERNANCE NCSC205 INTERMEDIATE WEB APPLICATION DEVELOPMENT END OF SECOND SEMESTER EXAMINATIONS

# APRIL/MAY 2020

## LECTURER: MR MAGWAGWA

## **DURATION:48 HRS**

# **INSTRUCTIONS**

You are required to answer question/s as instructed below:

When submitting your answers compress (zip) the practical and submit theoretical question as separate file in MOODLE

Submit an exported database to questions that use a database

Answer One(1) questions

Credit will be awarded for logical, systematic and neat presentations

## **Question 1**

a) Africa University is redesigning their website. The below image is the proposed design of the Home page. Produce the Homepage and further design the About, My Academics and Alumni pages in HTML5, CSS3 and PHP code. The About, My Academics and Alumni pages should be developed using the same concept of our homepage. Please note you are expected to create desktop and mobile views

1100 px 10 430 370 10 250 Color #000 Class - bottom\_head - #fff Class - top head #FFCC00 Vacancies Apply online Pay Online Go acolor: #9f0 ngth: 250px, leight: 20px 270 olor #900 AFRICA UNIVERSITY ALUMNI ASSOCIATION Class - navi #8C0000 40 Color #fff Font 20px Home About My Academics Admissions Newsletter Alumni Donate to AU AU ONLINE 500 Class - slide Class - Reg\_Form **Application Form** 160 Firstname Lastname Gender V Confirm Password Email Address Cellphone Password Save **Desktop View** 

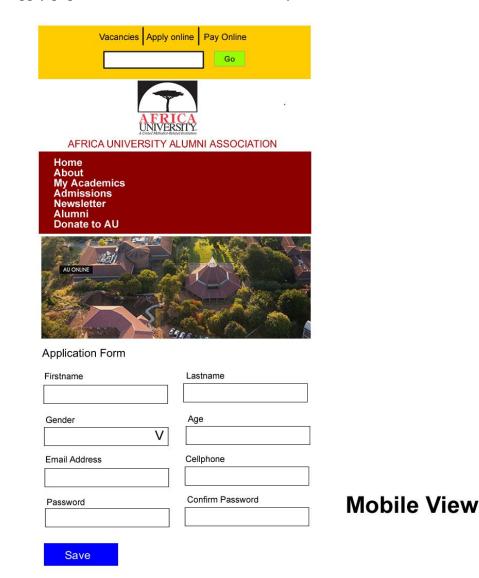
#### **Additional information:**

Main image should cover the inter-screen Menu bar should also cover the inter-screen [70 Marks]

Top-head class should be hidden in mobile view logo - logo.png Main image - slide.jpg Padding on menu links - 15px body font size is 14px Form input elements are all equal in width Gender dropdown menu should have Male and Female options

## Links/ Menu

Home - index.html; About - about.html; Admissions - admissions.html; Newsletter - newsletter.html Alumni - alumni.html; My Academics - academics.html; Donate to AU – donate.html; applyonline – apply.php; Vacancies – vacancies.html; Pay Online – online.html



b) Validate using JavaScript the HTML form in question 1 a) as follows:

i) First name and Last name to accept only letters and should not be empty	[2 Marks]
ii) Age and Cellphone number to accept only digits	[5 Marks]
iii) Email address must in format of email address	[5 Marks]
iv) Password and Confirm password must be the same	[3 Marks]

- c) Using the Form in a) write PHP code snippets that will
  - i) Connect to a database called **Alumnidb** which has username **user1** and password **pass1**
  - ii) Create a new record in table called Pdetails with columns id, fname, lname, gender, age, email and pass [15 Marks]

### **Question 2**

You are an IT expert and you have been approached by the Ministry of Health and Child Care of Zimbabwe(MoHCC) to develop a Web application specifically for the Covid-19. The system is expected to do the following:

- i. Allow the public to register if they have the symptoms(applicant).
- ii. The applicant can track the status of his registration
- iii. Allow the administrators at MoHCC to respond using email and the portal
- iv. Develop administrator level 1 rights which allows for the creating and viewing for new records.
- v. Develop administrator level 2 rights which allows for viewing, updating and deleting records.
- vi. Have page for the public to view statistics for pending investigations, current and recovered infections
- vii. Allow administrators to be viewed by only administrators
  - a) Discuss in great details web technologies that can be used to generate such a system. [20 Marks]
  - b) Develop a prototype web application that can performs 4 of the requirements listed in the project brief. All the forms used in the prototype should be validated (*indicate the functions developed and use two tables which are users\_tble and register\_tble*) [60 Marks]
  - c) Advise the MoHCC through a memo on how you will protect the system and the data uploaded [20 Marks]

#### **Question 3**

The Ministry of Tourism has resolved to rebrand their image. The process requires the creation of a logo and development of new website.

- a) Review the website <u>https://www.zimbabwetourism.net/</u> and develop a concept paper which outlines the following:
  - i. Findings of the review mention the pages and functions on the website
  - ii. Propose website features you would implement to improve the website
  - iii. Provide an analysis of the drawing system theories and justification of the drawing system selected for logo development
  - iv. Discuss how you would promote and market the website with a budget of US\$200

[70 Marks]

 b) Develop a website prototype using a Content Management System with the functions you have mentioned in the concept paper [30 Marks]