

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

# **NOVEMBER/DECEMBER 2019**

**LECTURER: MR MAGWAGWA** 

**DURATION: 3 HRS** 

# 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

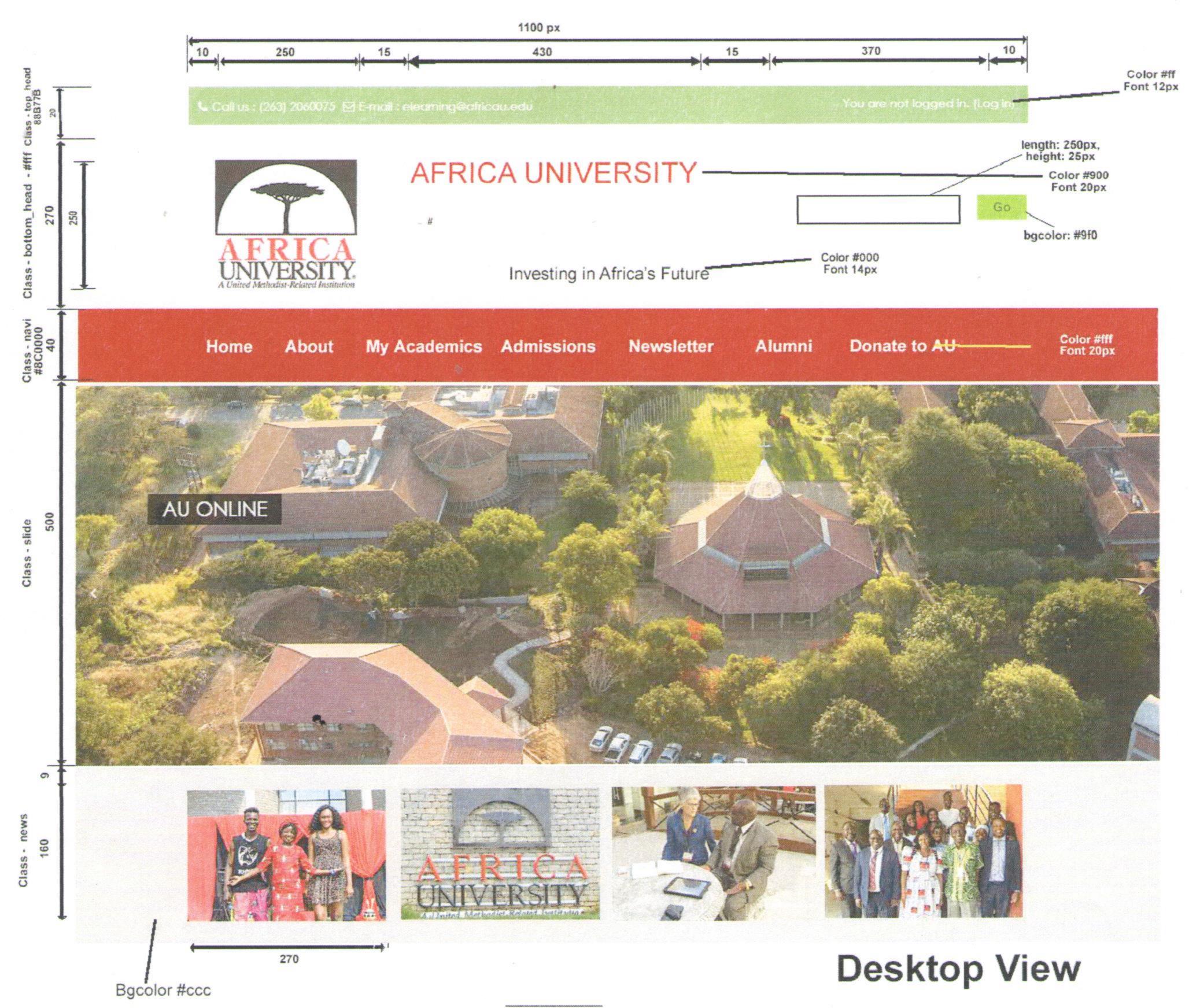
### **SECTION A**

# Question 1

Africa University is redesigning their website. The below image is the proposed design. Produce the Homepage HTML5 and CSS3 code for the page. Use a separate CSS to the index file and the name of the CSS is style.css. Use the font sizes, width and colors indicated at the edge of the image.

Please not you are expected to create desktop and mobile views

[40 Marks]



# Additional information:

Main image should cover the inter-screen

Menu bar should also cover the inter-screen

Top-head class should be hidden in mobile view logo - logo.png
Main image - slide.jpg
Smaller images - 1.jpg, 2.jpg, 3.jpg, 4.jpg
Padding on menu links - 15px
body font size is 14px

# 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; Login – login.php



# AFRICA UNIVERSITY

Investing in Africa's Future



**Mobile View** 

## Question 2

### Explain the following line of Code

- a) alert("Hello! I am an alert box!!"); [3 Marks]
- b) var person = prompt("Please enter your name", "Harry Potter");

```
if (person == null || person == "") {
  txt = "User cancelled the prompt.";
} else {
  txt = "Hello " + person + "! How are you today?";
}
```

[3 Marks]

c) \$result = \$conn->query(\$sql); \$row = \$result->fetch\_assoc();

[3 Marks]

- d) \$sql = "UPDATE username SET name='\$name', username='\$username', password='\$password', modified=NOW() WHERE Id='\$id'"

  [3 Marks]
- e) \$name=\$\_POST["name"];
   \$password=\$\_POST["password"];

[2 Marks]

# Question 3

Create a simple form that accepts name, email and age. The form should have validation which accepts only the data mentioned.

[6 Marks]

## **SECTION B**

### Question 4

a) What is md5 encryption? Provide code snippet of implementing md5 encryption in PHP

[3 Marks]

b) Write PHP code that can calculate the sum, product and difference of two numbers

[7 Marks]

c) Define and explain any 4 (Four) drawing systems you know

[10 Marks]

# Question 5

What is a Content Management System(CMS), Identify 3 examples of them [5 Marks] Differentiate between Grey hat and Black hat search engine techniques? b) [10 Marks] Identify and Explain any Four(4) reason why we validate code

[5 Marks]

Question 6

What is an array? Show how you can store and retrieve from it using a for loop

b) Define and Explain the terms placement, optimization, page ranking, indexing and crawling in terms of Search Engine Optimization [10 Marks]

c) Compare and Contrast Search Engine Optimization and Search Engine Marketing [5 Marks]