

**PAN AFRICA CHRISTIAN UNIVERSITY
EXAMINATIONS PAPER**



PAN AFRICA CHRISTIAN UNIVERSITY

BACHELOR OF ARTS AND COMMUNICATION

END OF SEMESTER EXAMINATION

DEPARTMENT: ARTS & COMMUNICATION

COURSE CODE: COM 203

COURSE TITLE: INTRODUCTION TO WEB & GRAPHIC DESIGN

EXAM DATE: DECEMBER, 2020

INSTRUCTIONS

- This exam script has **TWO (2)** sections.
- Read all questions carefully before attempting.
- Answer All questions in Section **A** and any other Three questions in Section **B**.
- Write only your **student number** on the answer booklet provided.
- None programmable calculator permitted
- Calculators on phones, tablets and computers are NOT permitted in Theory Papers

SECTION A

(Answer ALL questions in this section)

Question ONE

Our client came-up to us with the concept of creating an educational website project offering online training program and online examination for the nurses. The client had a list of requirement for the admin panel of the system software. He wanted us to design a website integrated with an effective CMS for managing the course content area of the website. A robust website development was required to provide comprehensive study material to the nurses, automated online exams, built-in functionality for result analysis and consequent grading.

- a) Identify **FOUR** primary objectives of this web project **[4 Marks]**
- b) Identify **FOUR** list of requirement for the admin panel of the system software **[4 Marks]**
- c) Justify **ONE** appropriate attribute the users will use to get all the information related to the exams on the website without any hassles. **[2 Marks]**

Section B (Answer Any Three (3) Questions)

Question Two

- a) A web application is a client-server application that uses a web browser as its client program, and performs an interactive service by connecting with servers over the internet. Explain at least **THREE** categories of websites based on their functionality

[6

marks]

- b) The characteristics of a good web application can be based on usability, functionality and relevance. Discuss any **TWO** characteristics of web applications based on the above themes. **[4 marks]**

QUESTION THREE

- a) During a class discussion, Samuel and Anne agreed that triangle is the minimal unit of a polygon. Identify **THREE** ways a polygon can be broken into triangle. **[3 marks]**
- b) State **TWO** ways one can enforce security on a web application **[2 marks]**
- c) State at least **FOUR** guidelines essential when designing webpages **[2 marks]**
- d) Give a html code for inserting an image **[3 marks]**

QUESTION FOUR

Melane, a communication Student at PAC University was offered an internship at Cyrix Web Services Ltd, a company that provides Web Development Services. During her internship, she was expected to develop a website for one of the client in the company. With this background information, answer the following questions

- a) State **THREE** reasons why Melane would consider HTML programming language as her first choice in development. **[3 marks]**
- b) State at least **FOUR** editors she can use to design expected website. **[2 marks]**
- c) Give **TWO** key words that Stella is likely to use when writing programs **[2 marks]**
- d) Highlight at least **THREE** challenges that Melane would anticipate during Web Development **[3 marks]**

QUESTION FIVE

a) Write a program in HTML Language that will give the output shown below

[6 marks]

An Unordered HTML List

- Coffee
- Tea
- Milk

An Ordered HTML List

1. Coffee
2. Tea
3. Milk

b) Evaluate **FOUR** key considerations when using above html list.

[4 marks]

QUESTION SIX

a) Calculate the values of R, S and T of the line equation for each (K_P, J_P) and (K_R, J_R) .

Illustrate the linear equation for the values.

[6 Marks]

b) How can you use 2 vectors to define a coordinate system in 2D?

[4 marks]