COLLEGE OF BUSINESS, PEACE, LEADERSHIP AND GOVERNANCE

NCIS211 – WEB TECHNOLOGIES

END OF FIRST SEMESTER EXAMINATIONS

NOVEMBER 2022

LECTURER: MR MUKHALELA

DURATION: 3 HRS

INSTRUCTIONS

Answer any **ALL** questions in Section A.
Answer any **TWO** questions in Section B using the allocated answer booklet.

The marks allocated to **each** question are shown at the end of the section.

Credit will be awarded for logical, systematic and neat presentations.

Question 1.

Design an ERD for a hospital that you have just joined as a Web technologist. Include the following entities: Doctor, Ward, Patient, Drug, Bed and other entities of your choice. (25)

Section B

Question 2.

a. Write code snippet for a php script that indicate variables to connect to a MySQL database. Include the method you can use to connect to the database. (10)
b. Write an SQL statement for creating a new table called Lecturer and include both data type and other constraints, Include only 4 columns on the table. (5)
c. Write down the meanings of the following abbreviations as used in Web Technologies:
   - DNS
   - AWS
   - DHCP
   - JSOON
   - XML (5)

Question 3.

Server-side scripting can be done using any of the following technologies;

   - Python
   - JSP
   - ASP.Net and
   - AJAX etc

Using any one of the technologies of your choice, write brief notes and code snippets on how the chosen technology is used to connect a form to a database server. (25)

Question 4

a. From Question one above, identify any one entity which you shall code an html form for, be creative. (15)
b. Write html code snippets for an ordered list to be included in you web application, you have been told that the list should have 5 items and each should be centered, bold and italiced upon display. (5)
c. Using html code snippet, show how you will put a picture on a website. (5)

Question 5

Describe the three-tie-architecture as used in modern dynamic web technologies. (25)

Question 6

    a. Explain the usefulness of XML in Web technologies, illustrate using xml code. (10)

    b. React is a highly useful web technology in todays web driven undertakings, citing examples illustrate how a modern organization can manipulate React as web technologies framework. (15)

End of Examination