



COLLEGE OF BUSINESS, PEACE, LEADERSHIP AND GOVERNANCE

NCIS403: WEB APPLICATION DEVELOPMENT

END OF FIRST SEMESTER EXAMINATIONS

JULY 2022

LECTURER: MR A.C MUZENDA

DURATION: 3 HOURS

INSTRUCTIONS

Answer all Questions in Section A and **any three questions from Section B**
Total possible mark is 100

Start **each** question on a new page in your answer Booklet.

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

SECTION A: Answer All Questions [40 marks]

QUESTION 1

- a. Distinguish between static and dynamic web pages. [10]
- b. Write a PHP program to valid an email address. [10]
- c. Write a HTML code to generate following output. [15]

Enter Name of your friend

Choose the file you want to post to your friend

What does the file contain?

☒ Image ☒ Source code ☐ Binary code

You have Completed the Form .

- d. Briefly describe four major uses of JavaScript on the client side. [5]

SECTION B

Answer any three questions

QUESTION 2

There are four ways to associate styles with your HTML document. List and explain how you can use them. [20]

QUESTION 3

- a. What is JavaScript? What advantages are there to using JavaScript to manipulate a web page rather than sending all requests to the web server? What problems are there when using JavaScript to manipulate a page? [10]

b. Explain 2 different ways that CSS supports the DRY (Don't Repeat Yourself) principle. [4]

c. Explain the Authentication in relation to web security. [6]

QUESTION 4

a. Write an SQL script to create a table called users in a database; with the following fields (assume the specific database has already been accessed)

- **userId**, which is the primary key and value is provided by the database server
- **username**, which has an appropriate string format
- **password**, with a datatype suitable for SHA encryption
- **reg_date**, which has an appropriate date format
- insert one entry into the table [10]

b. A login page has a form with fields for username and password. The names of these text input fields are username and password. Write a process_login.php script that checks to see if the username and password exists in the database (forum). If the user exists print Welcome else print Not known. The users table is the one described in a. [10]

QUESTION 5

Write a HTML code to generate following output. Design an html form to take the information of a patient visiting a hospital such as name, contact phone no, days of admission, sex (to be selected from a list of M or F), suggestions etc. One should provide button to Submit as well as Reset the form contents. [20]

THE END