



COLLEGE OF BUSINESS, PEACE, LEADERSHIP AND GOVERNANCE

CIS403 WEB APPLICATION DEVELOPMENT

END OF SECOND SEMESTER EXAMINATIONS

JANUARY/JUNE 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 Three (3) questions from **Section B**

Credit will be awarded for logical, systematic and neat presentations

SECTION A

Question 1

Registration Form

P. Details

Name	<input type="text"/>
Lastname	<input type="text"/>
Username	<input type="text"/>
Password	<input type="password"/>

The above image is a registration form to social media driven website with a MySQL Database.

Additional information:

Database Host: localhost

Database username: root

Database password: root

Database name: Socialnetdb

Name textfield : txtName

Password textfield : txtPassword(Hide the text)

Lastname textfield : txtLastname

Username textfield : txtUser

- a) Generate a MySQL script that creates a table called login with the following columns
- id - which auto increments and primary key
 - name - VARCHAR(50) type and should not be empty
 - lastname - VARCHAR(50)
 - username - VARCHAR(50)
 - password - VARCHAR(50)
 - time created – Timestamp

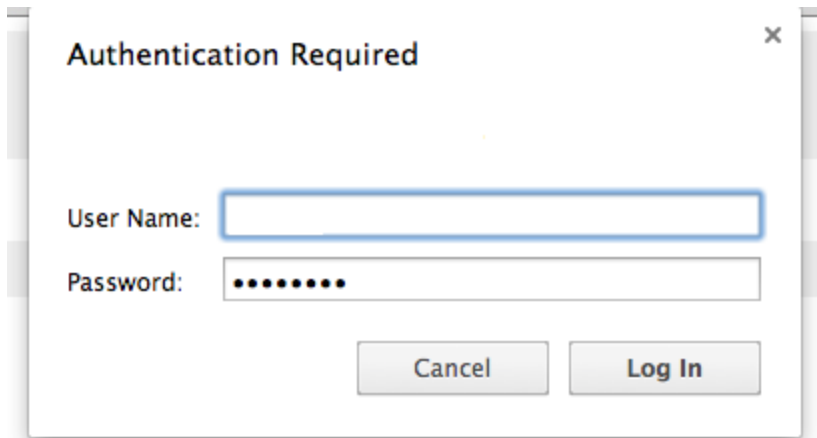
[5 Marks]

- b) Produce the HTML and PHP code for the form that inserts a new record in the table created [15 Marks]

Question 2

- a) Describe any 3 uses of Javascript in web development [3 Marks]
b) Describe a method that can be used to find an error in a Javascript code block [2 Marks]
c) Differentiate between Java and javascript [5 Marks]

Question 3



Generate a the HTML with an external javascript that promotes the user to enter the username and password. The password should be hidden as shown in the image above [10 Marks]

Question 4

There is a form called Arithmetic which uses the POST Method. The form has two fields with the following names(Num1 and Num2). With your knowledge of PHP write code snippet that implements the following

- a) Retrieve the values from Arithmetic Form and add the two [1 Marks]
b) Retrieve the values from Arithmetic Form and subtract Num1 from Num2 [1 Marks]
c) Retrieve the values from Arithmetic Form and divide Num2 by Num1 [2 Marks]
d) Retrieve the values from Arithmetic Form and find product of the two [2 Marks]
e) Retrieve the values from Arithmetic Form and find $\text{Num1}^{\text{Num2}}$ [4 Marks]

SECTION B

Question 5

A commercial company in Zimbabwe called Afripot Entertainment has recruited you as a web development consultant. Afripot wants sell its products online and the website should be able to do this. They have already register a domain afripot.org and they have also hired a webmaster.

- a) State the reason why afripot.org is a bad domain to register for the company. Suggest 2 domains you would recommend. **[5 Marks]**
- b) Discuss the functions of a domain you know **[4 Marks]**
- c) What type of website would you recommend and why? (Clearly show the advantage of your choice over the other type of website) **[10 Marks]**
- d) Mr Magwagwa is trying to access a `http://afripot.org` from his office computer. Please explain the concept associated with request and response. **[6 Marks]**

Question 6

- a) Discuss the difference between GET and POST (Clear show how they work) **[6 Marks]**
- b) List any three reason why you create a website **[3 Marks]**
- c) Discuss the two types of internet and give 2 advantages and disadvantages for each **[10 Marks]**
- d) Identify the data about the device that is used by a web server when a request is done by a user on their computer **[6 Marks]**

Question 7

- a) What are meta tags? What are they used for? **[5 Marks]**
- b) Identify and Explain the 3 components of a search engines. In explanation show the importance to the search engine optimisation **[9 Marks]**
- c) Differentiate between White hat and Black hat search engine techniques **[6 Marks]**
- d) Compare and contrast Search Engine Optimization and Search Engine Marketing **[5 Marks]**

Question 8

- a) Discuss any Four (4) factors that affect the website design process **[4 Marks]**
- b) Explain the CMYK, RGB and HSB color systems and show where they are most applicable

[9 Marks]

c) Differentiate between lossy and lossless images, give examples for each

[7 Marks]

d) Discuss any 2 drawing systems you know

[5 Marks]