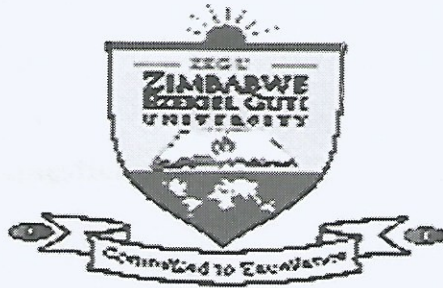


ZIMBABWE EZEKIEL GUTI UNIVERSITY



FACULTY OF SCIENCE, TECHNOLOGY, AGRICULTURE & FOOD SYSTEMS DEVELOPMENT

Department of Information Systems

MODULE CODE : BIS222
MODULE TITLE : Web Technologies
SPECIAL REQUIREMENTS : None
DURATION : 3hrs
LEVEL : 2.2
DATE : 2024

14 JUN 2024

Instructions

- (i) Answer all questions, the mark allocation for each question is shown in square brackets.
- (ii) Number your answers accordingly.
- (iii) The total marks for the examination is 100.
- (iv) The Examination consists of Section A and Section B
- (v) Answer Section A and any two Questions from Section B
- (vi) Write your section A and B in answer booklet provided

Section A – Answer all questions

[40 marks]

Question 1

- a. Define WWW. [2 marks]
- b. What is Client-Server Communication? [3 marks]
- c. Write the basic structure of HTTP Request and Response Message Structure [5marks]

Question 2

- a. List down the three ways of including style information in a document using code snippets wherever possible. [6 marks]
- b. Mention and explain any five java script object models. [10 marks]

Question 3

- a. Explain the document object model architecture. [6 marks]
- b. How does the internet work, brief with a sample application. [4 marks]
- c. List out the rules for writing CSS. [4 marks]

Section B- Answer any three Questions

[60 marks]

Question 4

Write a HTML program to demonstrate application of Hyperlinks using the following scenarios.

- a. Navigation from one page to another in the same folder.
- b. Navigation to a specific location within the same page.
- c. Navigation from one page to another on a different server.

[20 marks]

Question 5

Write HTML code to create the design below containing labels, textboxes, checkboxes, radio buttons, select, comment and a submit button. Add CSS style of choice to enhance the design. Upon clicking the submit button selected details must be sent to **verification.php** file. [20 marks]

Name

Email

Age

Which option best describes you?

Student
 Intern
 Professional
 Other

Would you recommend TrustAcademy to a friend? Yes No Maybe

Languages and Frameworks known (Check all that apply)

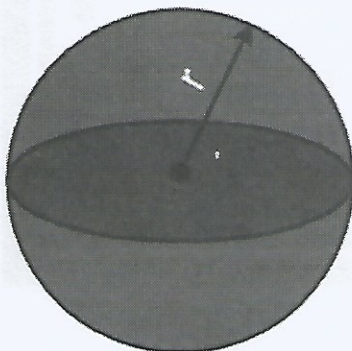
C C++ C# Java Python JavaScript React Angular Django Spring

Any comments or suggestions

Question 6

A sphere is a perfectly round geometrical object in 3-dimensional space. It is the set of all the points located a particular distance away from a particular point called center. It is perfectly symmetrical and has no edges or vertices.

Write the complete JavaScript to prompt the user for the radius of the sphere and call function Volume to calculate and display the volume of the sphere which is calculated as:



$$V = \frac{4}{3}\pi r^3$$

The user should input the radius through an HTML **text** field and press an HTML **calculate** button to initiate the calculations. [20 marks]

← → ↻ ⓘ File | C:/Users/PAVILLION%207th%20gen/Desktop/sphrevolume.html

Android Applicatio... PHP Questions & A... Android Tutorials java for andro

Enter the radius of Sphere:

Question 7

Design a PHP based web application that takes name and age from an HTML page. If the age is less than 18, it should send a page with "Hello <name>, you are not authorized to visit the site" message, where <name> should be replaced with the entered name. Otherwise it should send "Welcome <name> to this site" message as demonstrated below. [20 marks]

Login

User name:

age:

How to convert you... Visual Basic .NET pr... Bookmarks

Welcome MHLANGANISO to this site.

Question 8

- Write PHP code to create two cookies name and age that will expire after an hour. [10 marks]

- b. You have been tasked to assist management in choosing a content management system for an organisation. Outline and explain the guidelines you would consider when choosing the right content management system for an organisation. [10 marks]

0/10

PMW