

**Scott Christian
UNIVERSITY**
A Dynamic Centre of Academic Excellence

SCHOOL OF EDUCATION AND BUSINESS STUDIES

UNIT CODE/NAME: DCT 037: INTERNET APPLICATION PROGRAMMING

January – April 2024/2025 End of Semester Exams - Time: 2 Hours

Instructions: Answer Question ONE (Compulsory) and any other TWO questions.

QUESTION ONE

(a) Differentiate the following pair of terms as used on the internet, providing examples where appropriate: -

- i. Tags and attributes. (3 marks)
- ii. Internet and world wide web (WWW). (3 marks)
- iii. Dynamic and static websites. (3 marks)
- iv. HTML and DHTML. (3 marks)

(b) Using a scripting language of your choice, create a sample website that uses the following: -

- v. Heading tag. (2 marks)
- vi. Selection control structure. (2 marks)
- vii. Variable declarations. (2 marks)
- viii. Date function. (2 marks)

(c) Write short notes on the following web development. Management tools.

- ix. Common gateway interface (CGI) scripting. (2 marks)
- x. Perl. (2 marks)
- xi. Cascading style sheets (CSS). (2 marks)
- xii. Sockets. (2 marks)
- xiii. Browser. (2 marks)

14,000

QUESTION TWO: 15 MARKS

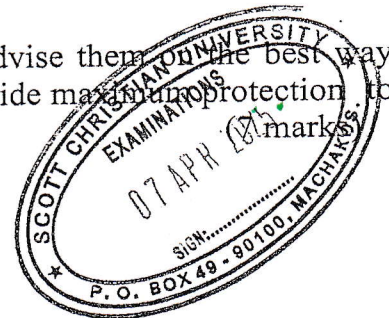
1. Describe the web development life cycle. (7 marks)
2. Differentiate between connection oriented and connectionless protocols, proving an example of each. (4 marks)
3. List and describe four qualities of good website (4 marks)

QUESTION THREE: 15 MARKS

1. Write employee.php script to receive employee details and the calculated results into a $\text{pay} = \text{hours worked} * \text{rate per hour}$ and insert all the form details and the calculated result into a database table called salary in employee database. (8 marks)
2. What is the use of the following as used in HTML.
 - a. Target. (2 marks)
 - b. Name. (2 marks)
3. Describe three uses of the internet. (3 marks)

QUESTION FOUR: 15 MARKS

1. Describe the following with respect to the internet, providing examples where appropriate: -
 - a. Active server pages (ASP). (2marks)
 - b. Internet Information Services (IIS) server. (2 marks)
 - c. Server scripting. (2 marks)
 - d. Home page. (2 marks)
2. A web hosting company has approached you to advise them the best way to enhance emphasize onto allow the company provide maximum protection to their clients' websites. (3 marks)



QUESTION FIVE: 15 MARKS

- a) Write a PHP script to display today date (3 marks)
- b) Write a html tags to create a form with textbox to enter product name, price and quantity then display total price (3 marks)
- c) Write a JavaScript to capture price and quantity values from the form, calculated total price and return the result to the form result text box (3 marks)
- d) One of the most common uses of event handler is to display a message on the status line when the user moves a mouse over a link
 - i. Write a html tag to display a link called "order product" (2 marks)
 - ii. Write a JavaScript to display the message "order a product" on the status line when a user places the mouse pointer over the order product link in c. i. above (2 marks)
 - iii. Write a JavaScript to clear the status line when the user moves the mouse away from the link (2 marks)