



Kasarani Campus
Off Thika Road
P. O. Box 49274, 00101
NAIROBI
Westlands Campus
Pamstech House
Woodvale Grove
Tel. 4442212
Fax: 4444175

KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS, 2024/2025 ACADEMIC YEAR
SECOND YEAR, SECOND SEMESTER EXAMINATION
FOR THE DEGREE OF BACHELOR OF SCIENCE (COMPUTER SCIENCE)

KCS 2209: INTERNET APPLICATION PROGRAMMING

DATE: 6TH DECEMBER, 2024

TIME: 11:30AM-1:30PM

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE: COMPULSORY (30 MARKS)

- a). Differentiate between HTTP and HTTPs **(2 Marks)**
b). There are various HTTP request methods in existence, the two most common HTTP methods are **GET** and **POST**. Provide two key differences between these two methods and cite their applicability. **(4 Marks)**

- c). Create an HTML code that displays the following output;

Hint: Use CSS border property to add a border to the table and apply.

Student Details

Firstname	Lastname	Date Of Birth
Ryan	Cheruiyot	1999
Collins	Mwangi	2000
Calvin	Otieno	1998

(4 Marks)

- d). Write a PHP code to display "Hello and Welcome to Web Applications Programming Class of September December 2024!" **(3 Marks)**
e). Briefly outline any **FOUR** features of the WWW. **(4 Marks)**
f). With an aid of a diagram, explain the concept of Client/Server Architecture, identifying all its components. **(4 Marks)**
g). Write an HTML code to;
i) To create a link to "https://www.kwust.ac.ke" with the text "Click here to register at KWUST". **(3 Marks)**
ii) Display an image with the file name "**cat.jpg**" and includes the alternative text "**My cat**". **(3 Marks)**
h) In the context of Web programming, explain the following terms giving examples; **(3 Marks)**
i) Client server
ii) Internet
iii) Cascading Style Sheet (CSS)

QUESTION TWO: 20 MARKS

- a). Write a PHP script to add three numbers whose values are; 8, 10 and 6 respectively. **Hint:** declare three variables to store your values. **(8 Marks)**

- b). Create a basic login form that allows users to enter their login credentials (username and a password) and select a gender. The form should prompt users to fill in all fields before submission. Set up the form to send data for processing upon submission, using a placeholder path. **(6 Marks)**
- c). Provide two key differences between JavaScript and VBscript languages. **(2 Marks)**
- d). How do you add a comment in HTML, and what is it used for? Briefly demonstrate. **(2 Marks)**
- e). Provide two benefits of using JavaScript in your website. **(2 Marks)**

QUESTION THREE: 15 MARKS

- a). Write a JavaScript code that can evaluate temperature readings to determine if one's body temperature is within the range or not. **(7 Marks)**
- The program should prompt the user to enter temperature values
 - In case the entered value is equal or less than 37 degrees Celsius then the user should get a message that, "You have normal body temperature"
 - In case the entered value is greater than 37 degrees Celsius, then the user should get the message, "You have high temperature visit hospital for check-ups".
 - The page title should read Temperature
 - Use h3 to define your headings.
- b) In the context of Web programming, explain the following terms giving examples; **(3 Marks)**
- WWW
 - URL
 - Web browser
- c). Provide THREE key differences between Server-side scripting and Client-side scripting. Give an example of languages used in each case. **(7 Marks)**
- d). What is an iframe? Use HTML code to demonstrate how iframe works. **(3 Marks)**

QUESTION FOUR: 20 MARKS

- a). Demonstrate how you can practically apply external CSS to a webpage. **Hint:** Use HTML code and create two separate documents. **(8 Marks)**
- b). Write codes for the below HTML Output list; **(4 Marks)**
- Dog**
Loyal and friendly companions, available in many breeds and sizes.
- Cat**
Independent and playful, with excellent agility.
- Rabbit**
Gentle and social, with soft fur and playful behavior.
- c). Identify and explain any Four TCP/IP protocols. **(4 Marks)**
- d). Differentiate between HTML tags and HTML elements giving examples of each. **(4 Marks)**

QUESTION FIVE: 20 MARKS

- a). Create a reversed ordered list that starts with 10 and contains the following numbers: 10, 9, 8, 7, 6. **(4 Marks)**
- b). Write HTML code to create a drop-down menu with the following options: **(4 Marks)**
- Apple
 - Banana
 - Orange
 - Mango
- c). What are variables in JavaScript? Explain the difference between var, let, and const. **(6 Marks)**
- d). With an aid of an example, explain the purpose of the action and method attributes in HTML forms. **(4 Marks)**
- e). Differentiate between legend and fieldset elements as used in HTML forms. **(2 Marks)**