

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF CERTIFICATE IN COMPUTER SCIENCE

COSC 0141: INTRODUCTION TO WEB-BASED PROGRAMMING

STREAMS: DIP COMP SCI Y1S2

TIME: 2 HOURS

DAY/DATE:.....

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INSTRUCTIONS:

- Answer question **ONE** and **TWO** other questions
- Do not write anything on the question paper
- This is a **closed book exam**, No reference materials are allowed in the examination room
- There will be **NO** use of mobile phones or any other unauthorized materials
- Write your answers legibly and use your time wisely.
- Marks are awarded for clear and concise answers.

SECTION A (Answer ALL questions in this section)

QUESTION ONE (30 Marks)

- Write and explain the basic structure of HTML. [3 Marks]
- What is a marquee as an HTML markup element? (1 mark)
- Discuss the difference between a client and a server? [4Marks]
- Explain what you understand by the term internet protocol? [2Marks]
- Discuss the difference between BACKGROUND and BGCOLOR attributes of tag ? [4 marks]
- State and explain three advantages of JavaScript in web programming (6 Marks)
- Using examples state and explain what is a comment and give two types of comments commonly used write a code to demonstrate your answer? [4 Marks]

h) Define the following terms as used in Web programming.

- i. INTERNET [2Marks]
- ii. HTML [2Marks]
- iii. CSS [2Marks]
- iv. WEB PAGE [2Marks]

SECTION B (Answer any TWO questions)

QUESTION TWO (20 Marks)

a. Write the html code to create a static webpage using the table tags of HTML (10 marks)

YEAR 1 SEMESTER 1				
CODE	TITLE	Lecture Hours	Practical Hours	C.F
COSC 0100	Information technology and national development	45	0	3.0
COSC 0110	Computer architecture	45	0	3.0
COSC 0101	Introduction to computer systems	30	30	3.0
COSC 0170	Mathematics for Computing 1	45	0	3.0
COSC 0171	IT Technical Support and customer care	45	0	3.0
ZOOL 0143	HIV/AIDS and life skills	45	0	3.0
PHYS 0101	Principles of physics	30	30	3.0
TOTAL		285	60	21.0

b. Write JavaScript code to illustrate each of the following control structures: (6 Marks)

- i. IF ... ELSE
- ii. WHILE
- iii. Switch case

c. write CSS syntax and explain its structure [4mks]

QUESTION THREE (20 Marks)

a) Write down the basic structure of a HTML page with a JavaScript code that pops up When the page loads. [10Marks]

b) The internet has many advantages and many applications have been developed that Utilize this vast network. **STATE** and **EXPLAIN** some of the applications of the Internet. [10Marks]

QUESTION FOUR (20 Marks)

a) Write a JAVASCRIPT FUNCTION that adds two numbers. [5 Marks]

- b) Giving an example on each, EXPLAIN FIVE JAVASCRIPT operators. [10 Marks]
- c) With an examples show how you can include CSS in an HTML file. [5 Marks]

QUESTION FIVE (20 Marks)

- a) Write code would you use to create a style sheet to specify 30-point blue Arial headings and all other text in double-spaced, 10-point blue Times Roman (or the default browser font). (5 Marks)
- b) If you saved the style sheet you made for (a) above as corporate.css, show how would you apply it to a web page named intro.html. [5Marks]
- c) Write a CSS code for an id with the property color red. [5 Marks]
- d) State and explain any FIVE internet protocols used today. [5Marks]