

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF  
DIPLOMA IN COMPUTER SCIENCE**

**COSC 0141: INTRODUCTION TO WEB-BASED PROGRAMMING**

**STREAMS: DIP COMP SCI Y1S2**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 6 /07/ 2021**

**2.30 PM – 4.30 PM**

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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)

<b>YEAR 1 SEMESTER 1</b>				
<b>CODE</b>	<b>TITLE</b>	<b>Lecture Hours</b>	<b>Practical Hours</b>	<b>C.F</b>
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
<b>TOTAL</b>		<b>285</b>	<b>60</b>	<b>21.0</b>

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]
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