

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD CERTIFICATE IN COMPUTER
SCIENCE

COSC 00131: INTRODUCTION TO WEB DESIGN

STREAMS: CERT. COMP SCI Y1S2

TIME: 2 HOURS

DAY/DATE: MONDAY 27/09/2021

11.30 A.M. – 1.30 P.M.

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)

a) State and explain what each of the following acronyms stand for:

- XHTML (2 marks)
- PHP (2 marks)
- CSS (2 marks)

b) Briefly discuss the usage and differences of the `<p>` and `
` tags of html (2 marks)

c) Giving a html example for each differentiate between ordered and unordered lists

(4

marks)

d) Discuss FOUR advantages of using PHP over other languages when developing a website

(4 marks)

- e) Write a html code with an embedded PHP code that displays the text “Hello World”
(4 marks)
- f) Write a HTML structure with a paragraph and a heading (4 Marks)
- g) A comment is simply a text that is ignored by the PHP engine. The purpose of comments is to make the code more readable. Illustrate any THREE ways to show comments in PHP. (3 marks)
- h) Discuss each of the following html tags (3 marks)
- i. ``
 - ii. `<hr>`
 - iii. `<Marquee></Marquee>`.

SECTION B (Answer any TWO questions)

QUESTION TWO (20 Marks)

- a) Domain Name Service (DNS) maps domain names with IP addresses enabling humans to use memorable domain names while computers on the internet can use IP addresses. Briefly describe the working of the DNS (10 marks)
- b) State and explain the advantages of using Dreamweaver in developing websites. (4 marks)
- c) **WAMP, LAMP** and **XAMPP** are all tools that can be used by a web designer and developer. Giving their full meanings discuss each of the three tools. (6 marks)

QUESTION THREE (20 Marks)

- a) Website or web application’s security depends on the level of protection tools that have been equipped and tested on it. There are a few major threats to security which are the most common ways in which a website or web application becomes hacked. Discuss FIVE vulnerabilities for all web-based services providing a solution to each vulnerability (10 marks)

- b) Write html code to create the form interface below. (10 marks)

FILL IN TO RECEIVE UPDATES

NAMES

EMAIL ADDRESS

COUNTRY ▼

GENDER **MALE**
 FEMALE

QUESTION FOUR (20 Marks)

- a) Write and explain the basic structure of HTML web page (5 marks)
- b) In order to use a style sheet with your HTML5 document, you need to tell your document where to locate the style definitions. State and explain three ways to define styles (8 marks)
- c) Write HTML code to produce the table shown below (7 marks)

| UEFA FIXTURES | | |
|---------------|----------------|--------------------------|
| SATURDAY | 4.00-7.00 P.M. | Arsenal VS Barcelona |
| | 9.00-12.00 P.M | PSG VS Manchester United |

QUESTION FIVE (20 Marks)

- a) A website requires a web form (contact us form) that users can fill to contact the web designer/ organization. The web form requires users to fill in the following details: Name, Email Address, Phone Number, Country and Comments. Design this web form using html (10 marks)

- b) Web administration is the practice of keeping a website running efficiently and securely. Responsibility for the website is managed by the website administrator or webmaster, whose job is to perform the many daily tasks required to maintain a website. Explain any FIVE functions of a web administrator. (10 marks)
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