

CHUKA



UNIVERSITY

SUPPLEMENTARY / SPECIAL EXAMINATIONS

**THIRD YEAR EXAMINATION FOR THE AWARD OF BACHELOR OF SCIENCE
APPLIED COMPUTER SCIENCE**

ACSC 327: WEB PROGRAMMING AND ADMINISTRATION

STREAMS: BSC. APPLIED COMPUTER SCIENCE Y3 S1

TIME: 2 HOURS

DAY/DATE : MONDAY 16/11/2020

2.30 P.M - 4.30 P.M.

INSTRUCTIONS:

- Answer Question **ONE** and any other **TWO** questions.
- Diagrams should be used whenever they are relevant to support an answer.
- Sketch maps and diagrams may be used whenever they help to illustrate your answer
- 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

SECTION A

ANSWER ALL THE QUESTIONS IN THIS SECTION

QUESTION ONE [30 MARKS]

- a) Explain for what reasons we need the following in web development:
- | | |
|----------------|-----------|
| i. HTML | [2 Marks] |
| ii. JavaScript | [2 Marks] |
| iii. CSS | [2 Marks] |

- b) Explain the meaning of W3C in the context of web design. [2 Marks]
- c) Highlight any three reasons why W3C is important to web developers [6 Marks]
- d) Giving an example present and explain the structure of a CSS rule. [4 Marks]
- e) Write the HTML code to display the following:
- i. 1/4 [1 Mark]
 - ii. % [1 Mark]
 - iii. < [1 Mark]
 - iv. & [1 Mark]
- f) Write the full meaning of the following abbreviations:
- i. HTML. [2 Marks]
 - ii. CSS. [2 Marks]
 - iii. XML. [2 Marks]
- g) Write code to display the following in JavaScript:
- i. Single line comment [1 Mark]
 - ii. Multiline comments [1 Mark]

SECTION B

ANSWER ANY TWO QUESTIONS FROM THIS SECTION

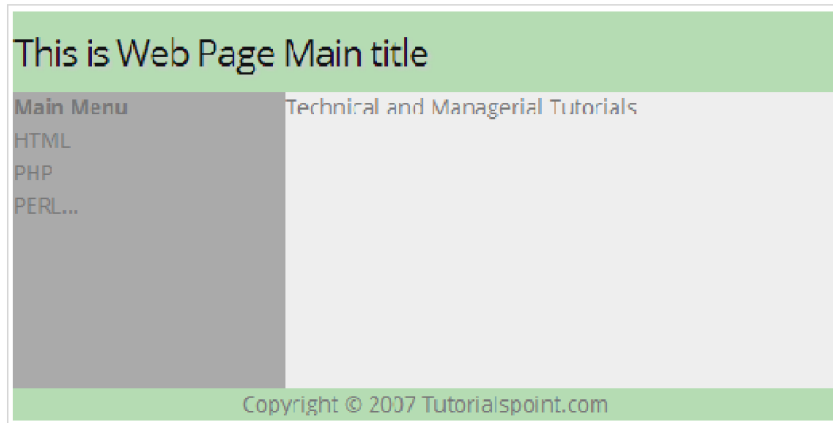
HIS SECTION

QUESTION TWO [20 MARKS]

- a) A string “Web Programming and Administration” is to be displayed as a Heading 2 with a text color of blue and with a line passing across the string. Write the HTML code to implement this. [6 Marks]
- b) A Kenyan citizen can only be given an Identification Card only if they are 18 years and above. Write a PHP program that tests age and responds with an appropriate message. [4 Marks]
- c) List and discuss each of the Schenidermann’s rules of interface design [8 Marks]
- d) Highlight the role of Ajax in web development [2 Marks]

QUESTION THREE [20 MARKS]

- a) Write HTML code to reproduce the following structure [8 Marks]



- b) Amina's basicSalary is Ksh. 30000 and her totalAllowances are Ksh.40000. Assuming her grossSalary is the sum of basicSalary and totalAllowances, write a PHP function to find the grossSalary [8 Marks]
- c) Write the MySQL code to create a user namely admin with a password of adminpass on a server localhost [4 Marks]

QUESTION FOUR [20 MARKS]

- a) A table tbStudents to store students' details is required. The table has fields RegNumber, FirstName, CAT and Exam. The RegNumber is the primary key. Write the MySQL code to:
- i. Create the table [4 Marks]
 - ii. Populate the table with any two records [2 Marks]
 - iii. Add a field LastName after FirstName [2 Marks]
 - iv. Rename RegNumber to RegNo [2 Marks]
 - v. View all records of the table [2 Marks]
 - vi. Completely do away with the table and its contents [2 Marks]
- d) Explain why XAMPP is important to you as a web designer and developer [2 Marks]
- e) Write an inline CSS that ensures all H1 headings have font color red, of size 30 point and Georgia [4 Marks]

QUESTION FIVE [20 MARKS]

a) Write the HTML code to reproduce this form

[8 Marks]

The image shows a registration form with the following elements:

- First Name:
- Last Name:
- Your Email:
- New Password:
- I am:
- Birthday:
-

b) Write the PHP code that is executed when the Submit button is clicked

[8 Marks]

c) Differentiate between websites and web applications

[4 Marks]

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