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University Examinations 2020/2021

SECOND YEAR SECOND SEMESTER EXAMINATIONS FOR BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

CIT 3250: WEB DESIGN

DATE: JULY 2021   **TIME: 2 HOURS**

INSTRUCTIONS: Answer Question ONE and any other Two questions.

QUESTION ONE (30 MARKS)

a) Give 3 reasons why internet uptake is on the increase   (6 Marks)

b) Define the following terms and state their specific roles in internet and World Wide Internet.   [4 marks]

   i) Webserver

   ii) HTML

   iii) Web browser

   iv) Protocols

c) Identify the various parts of the following URL:
                     "**https**:/**www.must.ac.ke/home.''**

                                                                (4 marks)

d) Write a css code that applies the following formatting on a web page   (4 marks)
                         Change case, background color=red, font size =17 all text centre aligned.

e) Write an HTML program to display the list of three items using ordered list and another three using unordered list   [6 marks]

f) giving examples explain the following CSS selectors   (6 Marks)

      i.   Class selector
     ii.   ID selector
   iii.   Attribute selector

QUESTION TWO (20 MARKS)

a) Outline the four basic components required for internet connectivity. Specify the role played by each   [8 marks]

b) Write a code that will display the following onscreen using the browser.   (12 Marks)

PAYMENT FORM

FILL IN PAYMENT DETAILS
NAME: [_____]
ID_NUMBER: [_____]
SEX : ○ MALE ○ FEMALE
SELECT MODE OF PAYMENT
☐ CASH
☐ CHEQUE
☐ CREDIT CARD
☐ M-PESA CARD
SELECT COUNTRY OF PAYMENT [KENYA ▼]
KENYA
UGANDA
TANZANIA

QUESTION THREE (20 MARKS)

a.   Discuss the Key Elements of an Effective Website   (10 marks)

b) Explain any two types of HTML lists   [2 marks]

c) Using an, example explain the components of a URL   [4 marks]

d) Identify the syntax of the css using the image below   (4 Marks)

h1 {color:blue; font-size:12px;}

QUESTION FOUR (20 MARKS)

a. Describe the roles of the following in web design

    i) Forms   (1 marks)
    ii) CSS   [2 marks]
    iii) CGI   [2 marks]

b. Describe three security threats on the World Wide Web   [3 marks]

c. All web documents can be grouped into *three* broad categories according to the time at which the contents of the document are determined. Discuss the following three types of web pages   (6 Marks)

    i. Static
    ii. Dynamic
    iii. Active

d) Illustrate using html code how to create the following

    i) Green background and white text color as default for the page   [2 marks]

    ii) Table with two rows and two columns with some contents   [2 marks]

    iii) Local Hyperlink   [2 mark]

QUESTION FIVE (20 MARKS)

a) Define the following terms   (4 Marks

    I. HTML
    II. Web browser
    III. Hyperlink
    IV. hotspot

b) Create the following form controls.   [8 marks]

    i. Textbox named txtFirst with a label first name.
    ii. Two Radio button named rdoMale and rdoFemale with labels male and female.
    iii. A text area named txta1.
    iv. A push button, submits and reset labeled click on me, send and clear respectively.

c) Discuss any five advantages of using CSS in web designing.   (5 marks)
d) There are three ways of inserting a style sheet: explain each of them   (3 marks