

DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY UNIVERSITY EXAMINATIONS 2019/2020

EXAMINATION FOR BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY AND BACHELOR OF SCIENCE IN BUSINESS INFORMATION TECHNOLOGY CHE 2204, WEB ARRIVED AND ICATIONS PROCED AND MING A CHE 2209, EPONTE END WEB

CIT 2204: WEB APPLICATIONS PROGRAMMING / CIT 2208: FRONT-END WEB DEVELOPMENT

DATE: AUGUST 2020 TIME: 2 HOURS

INSTRUCTIONS

Answer question ONE and any other TWO questions

QUESTION ONE [30 MARKS]

- a) Define the following terms [6 Marks]
 - (i) Internet:
 - (ii) WWW
 - (iii) Protocol
 - (iv) HTML:
 - (v) HTTP:
 - (vi) URL:
- b) "The World Wide Web is essential in the internet." Discuss this statement. [4 Marks]
- c) Describe the effect of the HTML code shown below to a web page. [3 marks]

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d) Assume you are developing a program to grade students marks a per the following requirements

Marks range	Grade
0 – 39	Е
40 - 49	D
50 – 59	С
60 – 69	В
70 – 100	A

Write a full HTML and JavaScript code that will allow a user to input an integer value then the program evaluates the marks and outputs the appropriate grade on a command screen. Use an embedded JavaScript code with an **if** control flow statement in evaluating the above [10 Marks]

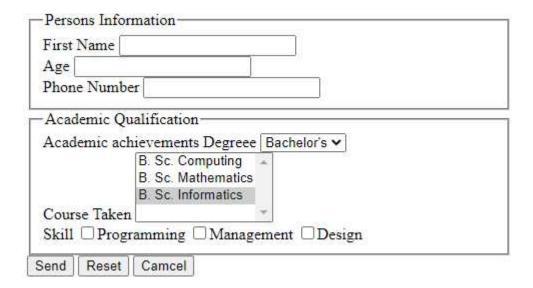
- e) What is a web server? Why is it important in deploying web applications? [4 Marks]
- f) Assume that you are tasked to develop a dynamic web application. List three characteristics of such a website (3 marks)

QUESTION TWO [20 MARKS]

- a) Define the following HTML code [3 Marks]
 - (i)
 - (ii) <i></i>
 - (iii) <u></u>
- b) Giving an appropriate example, differentiate between block and inline elements [4 Marks]
- c) Design a simple HMTL and JavaScript program that demonstrates the use of symbolic constant where the constant is the value of 0.56 in the equation c=0.56*(f-32). The user provides the value of f and the output is the value of c [6 Marks]
- d) Differentiate between server side scripting and client side scripting. Give an example of a language that can handle each [3 Marks]
- e) Give three difference between 3 tier architecture and MVC [4 Marks]

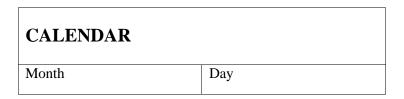
QUESTION THREE [20 MARKS]

- a) (i) What is CSS? [2 Mark]
 - (ii) Discuss three ways of linking HTML and CSS [6 Marks]
- b) Discuss any three server status codes [3 Marks]
- c) Create a HTML document that displays the web page shown below [9 marks]



QUESTION FOUR [20 MARKS]

- a) Discuss the difference between static and dynamic web sites. Give an appropriate example [4 Marks]
- b) Write html code that would display the table below [5 marks]



- c) How is JavaScript different from other programming languages such as C or C++? [4 Marks]
- d) Differentiate between the following HMTL special characters [2 Marks]
 - (i) <
 - (ii) & amp
- e) Write HTML code to differentiate between cell spacing and cell padding [5 Marks]