

Machakos University

University Examinations 2022/2023

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

SECOND YEAR FIRST SEMSTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE STATISTICS AND PROGRAMMING

SCS209: INTERNET TECHNOLOGY

DATE:

Time:

Instructions

This paper consists of FIVE questions

*Answer **question one** and other **two questions** in this paper*

Question One 30 marks (Compulsory)

- a) Define the following terms:
(i) HTML (ii) W3C (iii) CSS (3 marks)
- b) Explain **THREE** differences between html and xml. (3 marks)
- c) Describe the following two basic tools needed to create an html document.
 - i) Weblogic server
 - ii) Domain in Weblogic (4 marks)
- d) Discuss advantages of Clustering (3 marks)
- e) Explain the Basic Components Of Weblogic Server (4marks)
- f) Give an example of an html attribute and explain its composition. (2 marks)
- g) Show the skeletal structure of an html document using the five basic document elements. (5 marks)
- h) Explain the Difference Between Weblogic Development and Production Mode? (3marks)
- i) Mention **three** Supported Installation Modes for Weblogic Server (3 marks)

Question Two (20 marks)

- a) Define an html element (2 marks)
- b) Explain the function of attributes in html (2 marks)
- c) Describe the **THREE** types of DOCTYPE declarations used in html 4 (6 marks)
- d) Use an example to demonstrate how to create a link and show the outcome of the example. (5 marks)
- e) Explain the process of creating a an ordered and unordered table (5marks)

Question Three (20 marks)

a) Create the following table using html.

Reg.No	Maths	English	Swahili
S001	56	75	67
S002	50	65	62

- b) Explain the function of the top **most four layers of OSI** system. (4marks)
- b) Explain the function of the following tags: (4 marks)
- (i)

- (ii)
- c) Explain 4 ways you can start and stop Web logic servers (4 marks)
- d) Differentiate between Multicast And Unicast In Weblogic (4 marks)
- e) Explain how can you integrate CSS file to your webpage? (4 marks)

Question Four (20 marks)

- a) Create an html document for an ordered list with any three items in the list. (5 marks)
- b) Describe **THREE** methods of using style sheets. (6 marks)
- c) List **THREE** formatting tags (3 marks)
- d) List out some of the JQuery function used for webpage designing (3marks)
- e) Distinguish between external and an internal style sheet? How can we link them (3 marks)

Question Five (20 marks)

- a) What is objective of using JavaScript in html documents (2 marks)
- b) Create the html elements to create the following from input features.
- (i)First name (ii) Male (4 marks)
- c) List any **FIVE** form tags (5 marks)
- d)What are the different JavaScript types? (4 marks)
- e) What is <!DOCTYPE>? Why is it necessary to use in HTML5? (2 marks)
- f) How many markup elements do you know used in HTML5? (3 marks)