



MACHAKOS UNIVERSITY

University Examinations for 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 (COMPULSORY) (30 MARKS)

- a) Define the following terms:
- | | | | |
|----------|----------|-----------|-----------|
| (i) HTML | (ii) W3C | (iii) CSS | (3 marks) |
|----------|----------|-----------|-----------|
- b) Explain THREE differences between html and xhtml. (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 (4 marks)
- 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? (3 marks)
- 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 (5 marks)

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. (4 marks)
- c) Explain the function of the following tags: (4 marks)
 - (i)

 - (ii) <b
- 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 (3 marks)
- 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)