

Mount Kenya University

UNIVERSITY EXAMINATIONS 2023/2024

SCHOOL OF COMPUTING AND INFORMATICS
DEPARTMENT OF INFORMATION TECHNOLOGY/ENTERPRISE COMPUTING

BACHELOR OF BUSINESS INFORMATION TECHNOLOGY
VIRTUAL VARSITY

UNIT CODE: BIT3202

UNIT TITLE: INTERNET PROGRAMMING

DATE: FRI 8TH DEC, 2023 4.00PM MAIN EXAM TIME: 2 HOURS

INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS

QUESTION ONE

- Identify and Explain the relation between the Web and the Internet. (4 Marks)
- Explain the Difference between a Web server and a Web browser. (4 Marks)
- Describe various ways to develop web pages, including HTML and XHTML, XML and WML. (6 Marks)
- Write a PHP code to insert the following student into the students table. (6 Marks)

Student id: BBIT/009

Name: Jane

Course: BBIT

County: NAIROBI

- Write a simple php code to create a database called Kenya_DB (8 Marks)
- Discuss FOUR communication services provided by the internet. (2 Marks)

QUESTION TWO

- Describe the mostly used common internet protocol to communicate across the Internet. (8 Marks)

- b) Describe importance of using XML over HTML (6 Marks)
- c) By writing the correct syntax, differentiate the Radio Buttons from Checkboxes found in the form element of a HTML (6 Marks)

QUESTION THREE

- a) Explain in your own words what DHTML is (2 Marks)
- b) 'Busy Mom shop and Pay from the House' is a slogan from an online shopping service. Explain briefly how this service uses the internet to do business (8 Marks)
- c) Explain the concept of Web service and the access of Web services with DHTML (4 Marks)
- d) Discuss FOUR communication services provided by the internet (6 Marks)

QUESTION FOUR

- a) In the last decade financial institutions have continued to develop applications for internet banking. Discuss four reasons for this trend? (4 Marks)
- b) Explain how one would insert the following in HTML page give the tags involved, its attributes and the code:
 - i) Inserting an image (2 Marks)
 - ii) Inserting horizontal line (2 Marks)
 - iii) Alternating Scrolling text on the screen (2 Marks)
- c) Describe the three primary kinds of selectors used in CSS using examples (5 Marks)
- d) Write the syntax code for the following Pthread operation, explaining its elements (6 Marks)
 - i) Creating new thread
 - ii) Terminating a thread

QUESTION FIVE

- a) Describe various ways to develop web pages, including HTML and XHTML, XML and VML (6 Marks)
- b) Explain the protocol used between Web client and Web server. (4 Marks)