



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE

OF

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

COURSE CODE:

BIT 214

COURSE TITLE:

WEB SYSTEMS AND TECHNOLOGIES 1

DATE: 06/12/2022

TIME: 08:00-10:00AM

INSTRUCTIONS TO CANDIDATES

Question ONE (1) is compulsory Answer TWO (2) questions

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

QUESTION ONE

	(a)	Briefly	y explain the function of a modem in data communication.	(*)	(4 marks)
	(a)	Briefly (i) (ii) (i)	wexplain the following types of networks WAN MAN LAN		(9 marks)
	(b)	3. 6	an email address john@hotmail.com, explain the componen	ts of this	` ,
		addres	And the second s		(4 marks)
- 10 pag					
	(d)	Give a	brief history of the development of the internet.		(4 marks)
	(e)		are various types of connectivity to get hooked to the interned of these facilities needed in order to get connected to the inte		and explain (5 marks)
Qĭ	JES	TION	TWO		
	(a)	The following are some alternatives for communication, internal and external to organizations.			
1		(i)	Internet		*
		(ii)	Intranet		
		(iii)	Extranet		
9		Write short notes on ALL of these headings indicating their main features and expla how they might be used by an organization for business communication (12 mark			
	(b)	(i) Des	scribe the structure of a html document	(4 marks)	
		(ii) De	scribe the classification of html tags with examples.	(2 mark	as)
į	(c)	List th	e functions of the server and the client.	(2 mark	cs)
QU	J ES '	TION '	THREE		
	(b)	When objects	and explain any Five services offered on the internet. developing websites, it is advisable not to incorporate too mass. True/False? Explain. n the term protocol.	any grap	(10 marks) phics and (4 marks) (2 marks)

	(d) Explain the difference between TCP/IP connection and Shell connection.	(4 marks)		
QU	ESTION FOUR			
	 (a) Some of the most frequently used protocols include: (i) FTP (ii) SMTP (iii) HTTP Explain the uses of these protocols. 	(9 marks)		
	 (b) With the growth of the internet, electronic mail services are rapidly replace mail services. Describe the features of an E-mail service which make it me than the ordinary mail service. (c) Differentiate between the following: (i) Web server and web browser (ii) Website and web page (iii) Gopher and telnet 	ing ordinary		
QU	ESTION FIVE	5		
 (a) List and fully describe at least five ways in which internet privacy can be enhanced. (10 marks) (b) Briefly explain the need of an e-mail address in our modern societies and technology 				
	(c) Outline the basic steps required for a TELNET session	(6 marks) (4 marks)		
(d)	Explain how a web page can be displayed. (4marks)			
() V	Write a HTML code that would display the following list in a browser window.			
	(10 marks)			
K	ibabii University College			
	o Main o Bungoma			
P	ogrammes on offer			
	1. Education			

- 2. Science
- 3. Engineering

(c)Explain the following terms as used in Web development:

(6 marks)

- i. Domain name
- ii. URL
- iii. Scripting
- iv. HTML