

MAASAI MARA UNIVERSITY

UNIVERSITY EXAMINATIONS 2019/2020 SECOND YEAR FIRST SEMESTER EXAMINATION

(REGULAR)

SCHOOL OF SCIENCE AND INFORMATION SCIENCES

UNIVERSITY EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURAL ECONOMICS

COURSE CODE: COM 1103

COURSE TITLE: INTRODUCTION TO COMPUTERS

<u>DATE: 13th DECEMBER 2019</u> TIME: 2:30pm-4:30pm

INSTRUCTIONS

Answer Question ONE and any other TWO

Ouestion One (Compulsory Ouestion) (30 Marks)

a)	Convert each form.	n of the following binary representation to its equivalent	base ten (2 marks)
	(i)	101010	-
	(ii)		
b)	Convert each	n of the following decimal representation to its equivaler	nt octal form. (2 marks)
	(i)	1	
	(ii)	1000	
c)	Convert each form.	n of the following binary representation to its equivalent	hexadecimal (2 marks)
	(i)	11.01	
	(ii)	110.011	
d)		following decimal values in binary notation.	(2 marks)
	(i) (ii)	$4\frac{1}{2}$	
	(ii)	$5\frac{5}{6}$	
e)		following binary additions in binary notation and conversal.	rt the answer (2 marks)
f)			
-	•	ee output and <i>two</i> input devices, explaining how they are	•
6)	computer sy		(10 Marks)
Indo do	mains. Howe main establis	(20 Marks) king Internet access can register, implement and maintai ver it is more common for an individual to gain Internet shed by an organization to which he or she belongs or by ilege of connecting to a domain established by the ISP.	access via a
	(i)]	Explain the term ISP	(2 marks)
	the mean	Using the university web URL identify each component a ing of each. Discuss the factors to consider when selecting an ISP.	nd describe (3 marks) (5 marks)

(v) Explain how domain names work.

can be used.

(iv) Give a detailed description of different classifications of TLDs that

(5 marks) (5 marks)

<u>Ouestion</u>	Three	(20 Ma	ırks)

- a) You have just bought a new laptop. Discuss how you would care for it to ensure it lasts longer. (10 marks)
- b) Differentiate between the following computer terms giving examples

(10 marks)

- i. Application software and system software
- ii. Off the shelf and bespoke software
- iii. Volatile and non-volatile memory
- iv. Impact and non-impact printers
- v. Warm booting and cold booting

Question Four (20 Marks)

a) Your friend needs assistance in purchasing a computer. He has approached you to help guide him on how to select the most appropriate computer. Discuss how you would assist him in this process.

(**10** marks)

b) (i) Explain the term hanging in computer systems.

- (2 marks)
- (ii) Give reasons as to why this would happen to a computer
- (2 marks)
- (iii) Suggest ways in which you can solve this problem in Microsoft Windows based operating system environment. (2 Marks)

- c) Describe the development in computing during the third generations:
 - a. Third generation.

(4 marks)