

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

SCHOOL OF SCIENCE AND INFORMATION SCIENCES

UNIVERSITY EXAMINATIONS FOR THE DEGREE OF BACHELOR

OF COMPUTER SCIENCE

FOURTH YEAR SECOND SEMESTER & SECOND YEAR SECOND SEMESTER EXAMINATIONS

COURSE CODE: COM 2204 / COM 221

COURSE TITLE: COMPUTER ORGANIZATION

DATE: 3RD **MAY 2018**

TIME: 1100 -1300 HRS

INSTRUCTIONS

Answer Question ONE and any other TWO

SECTION A QUESTION ONE (COMPULSORY 30 MARKS)

a.	Discuss the functions of Linux operating system	[6 Marks]
b.	Discuss the input/ output sub system	[6 Marks]
C.	Discuss three memory access methods	[3 Marks]
d.	Outline three examples of instruction set used by x86 instruction	on set
		[3 Marks]
e.	Discuss the four intermediate devices which operates in the phy	
c	of the OSI model	[8 Marks]
t.	Discuss the differences between opcodes and operands	[4 Marks]
	<u>CTION B</u> JESTION TWO	
a.	Discuss miss and hit in regard to cache memory Hit Ratio Discuss the following terms	[4 Marks]
-	. Interleaving	[2 Marks]
ii	0	[2 Marks]
iii		[2 Marks]
	Discuss the following terms as used in networking	[=]
	(i) Workstation	[2 Mark]
	(ii) Server	[2 Mark]
d.	Discuss differences between assemblers and translators	[6 Mark]
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QUESTION THREE

a.	Discuss differences between the following types of networl	KS
	(i) Peer-to-peer networks and Client/server networks	[6 marks]
	(ii) LAN (Local Area Network) and wide area network	[6 marks]
	(iii) Star Topology and bus topology	[4 marks]
b.	Discuss the following terms	
	(i) S (Sign) flag	
	(ii) Z (Zero) flag	[4 marks]

QUESTION FOUR

a. Discuss the differences between 30-pin SIMMs and 72-pin SIMMs.

[10 Marks]

b. Discuss the differences between synchronous DRAM (SDRAM) Window RAM (WRAM) [10 Marks]

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