

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

SCHOOL OF SCIENCE AND INFORMATION SCIENCES DEPARTMENT OF COMPUTING AND INFORMATION SCIENCES

THIRD YEAR SECOND SEMESTER EXAMINATION FOR DEGREE IN INFORMATION SCIENCES

COURSE CODE: INS 2203

COURSE TITLE: DATA COMMUNICATION

DATE: 30TH APRIL, 2018 TIME: 0830 - 1030HRS

INSTRUCTION TO CANDIDATE

- i. Question ONE in section A is compulsory
- ii. Answer any Two (2) Questions from section B
- iii. Use diagrams, example and illustration where necessary
- iv. All questions in section B have equal marks

SECTION A (COMPULSORY - 30 MARKS)

a) Define the following terms

QUESTION ONE

		i.	Data communication	[2 Marks]		
		ii.	Computer networking	[2 Marks]		
	b)	Explai	n any Two COMMUNICATION MEDIA used in Data Communication	[4 Marks]		
	c)	Discus	s Four characteristics of Data Communication	[8 Marks]		
	d)	Discus	s the seven layers of Open Systems Interconnection (OSI)	[14 Marks]		
SECTION B (ANSWER ANY TWO (2) QUESTIONS - 40 MARKS) QUESTION TWO [20 MARKS]						
	a)	Discus	s Five Data Communications system components	[10 Marks]		
	•		• •			
	-	•	n Five properties of computer Network	[5 Marks]		
	c)	Outlin	e Five benefits of a computer network	[5 Marks]		

QUESTION THREE [20 MARKS]

a) Define the following terms in reference to computer network

Notwork Topology

ı.	Network ropology	[Z Marks]
ii.	Protocol	[2 Marks]

b) Distinguish between the following

i.	Serial and Parallel Data Transmission	[4 Marks]
ii.	Client/server model and Peer-to-peer model	[4 Marks]
Discus	ss the Four Data Transmission mode	[8 Marks]

QUESTION FOUR [20 MARKS]

a)	Discuss Five network topologies	[10 Marks]
b)	Discuss Five Network Classifications/Types	[10 Marks]

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c)