

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2015/2016

FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF PUBLIC HEALTH WITH INFORMATION TECHNOLOGY

MAIN CAMPUS

UCI 102: COMMUNICATION SYSTEMS

Date: 3rd May, 2016

Time: 2.30 - 4.30 pm

INSTRUCTIONS:

· Answer question ONE and any other TWO questions.

UCI 102: COMPUTER COMMUNICATION SYSTEM

DATE	: APRIL 2016	TIME	: 2 HOURS
	RUCTIONS: AN QUESTIONS.	SWER QUESTION ONE (COMPUL	SORY) AND ANY OTHER
	TION ONE	g and list its main elements.	6mrks
2.	Using diagrams discuss the following topologies giving the advantages and disadvantage of each.		
	i. Bus		
	ii. Star		
	iii. Mesh		
	iv. Ring		12mrks
3.	Define network to	pology.	2mrk

10mrks

4. Discuss the 7 layers of OSI protocol stack.

QUESTION TWO

 With a suitable diagram, outline the concept of the server based network model and explain why it is the ideal model.

Outline the importance/functions of networking
 5mrks

Identify any two roles played by a NIC during data transmission.

5mrks

QUESTION THREE

Using diagram explain in detail types of network.

2. Explain the following networking hardware.

- i. Cables
- ii. Hubs
- iii. Repeaters
- iv. Bridges
- v. Routers
- vi. Switches 6mrks

10mrks

Lists factors to consider before choosing the type of network model to adopt 4mrks

QUESTION FOUR

State and explain the main functions of network administrator.
 10 mrks

Explain the importance of splitting data into pieces during transmission.

Identify and explain five network security techniques.

QUESTION FIVE

1. Examine the characteristics of transmission control protocol (TCP).

5mrks

2. Define operating system (OS) and explain its main roles.

5mrks

With the help of a diagram illustrate the performance comparison between Token Passing and Contention Access Methods. Give two advantages and disadvantages of each.

10mrks