W1-2-60-1-6

**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2014/2015**

**SECOND YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE**

**OF BACHELOR OF BUSINESS INFORMATION TECHNOLOGY**

**BBIT 2204: NETWORK DESIGN AND MANAGEMENT**

**DATE: APRIL 2015 TIME: 2 HOURS**

**INSTRUCTIONS:** **ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS**

**QUESTION ONE (30 MARKS)**

1. Explain the benefits of Network documentation. [5 marks]
2. Explain the role of network administrator. [5 marks]
3. Highlight the differences between TCP/IP and ISO - 7 layer model. [6 marks]
4. With illustration explain the star topology. [5 marks]
5. Explain any TWO protocols used in layer seven of the DSI model. [4 marks]
6. What is intranet? Give example. [3 marks]
7. Name and explain any TWO networking tools. [2 marks]

**QUESTION TWO**

1. With illustration explain the bus topology and enumerate its advantages and

disadvantages. [10 marks]

1. Mr. Okoth and network administrator in JKUAT set up a network connecting

all departments in the institution. After a period of two months, Mr. Okoth is

in a dilemma of finding the fault in the network which is now not working.

Explain the steps Mr. Okoth will take in correcting the fault network. [10 marks]

**QUESTION THREE**

1. State and explain tools in networking. [10 marks]
2. With illustration explain the layers of OSI model. [10 marks]

**QUESTION FOUR**

1. Explain Ethical token Kings. [10 marks]
2. Explain the importance of the following as used in networking:
3. Repeaters
4. Bridges

[10 marks]

**QUESTION FIVE**

1. You are the team leader of expertise that have been contracted to do

networking in the County Council offices of Kisii town. Discuss how

you will go about the network. [10 marks]

1. Discuss the fundamentals of network design goals. [10 marks]