



KENYATTA UNIVERSITY
EXAMINATION FOR DIPLOMA IN RECORDS MANAGEMENT AND
INFORMATION TECHNOLOGY

ISC 043: BASIC COMPUTER APPLICATIONS AND NETWORKS

1ST SEMESTER 2021/2022

TIME: 2 Hours

INSTRUCTIONS: Answer Question ONE and Any Other TWO Questions

Question One

a) Explain the following terms:

- i) Topology (2 Marks)
- ii) Software (2 Marks)
- iii) Network (2 Marks)

b) **Ms Excel**

Consider the figure below and answer the questions that follow.

	A	B	C
1	Data	Formula	
2	-4		
3			
4			
5			
6			
7			
8			
9			

- i) Which software was used to create this figure (1 mark)
- ii) If a user wanted to find the absolute value of the value in cell A2 and store the answer in cell B2. What formula would the user have to type? (2 marks)
- iii) What formula would the user have to type in order to Check if the number in cell A2 is less than or equal to 100 (2 marks)

(c) **Word-Processing**

- (i) A friend wants to create a second copy of an opened document under a different name. Explain to her what she should do? (3 marks)

(ii) The same friend calls you so worried about blue "wavy" underline appearing under a her word document. What do these lines mean? (3 marks)

(d) Explain the use of the following parts of a Microsoft Word program. (1 mark each mark)

- i) Title bar ii) Maximize button iii) Minimize button iv) Menu bar

(d) Databases

i) What is a database (1 mark)

ii) Explain FOUR advantages of an electronic database over the traditional file management system. (8 marks)

QUESTION TWO

(20 MARKS)

a) With examples discuss the advantages of a computer network in a Library (8 marks)

b) Discuss the three most common types of computer networks (12 marks)

QUESTION THREE

(20 MARKS)

a) Describe THREE major data communication models (9 Marks)

b) Discuss the following elements of computer networking

i) Data communication media (5 Marks)

ii) Networking software (6 Marks)

QUESTION FOUR

a) With diagrams, discuss the following network topologies

i) Star topology (5 Marks)

ii) Bas topology (5 Marks)

b) Explain FIVE disadvantages of computer network (10 Marks)

QUESTION FIVE

a) List THREE differences between Wide Area Network and Local Area Network

(8 Marks)

b) Using a diagram, describe any FOUR components of a data communication system.

(12 Marks)