



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

MAY – JULY 2019 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

REGULAR PROGRAMME

DLIS 121: INTRODUCTION TO NETWORKING

Date: JULY 2019

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and ANY OTHER TWO Questions

- Q1. a) Distinguish between the following terms as used in networking;
i. Simplex
ii. Half-duplex
iii. Full-duplex

(6 marks)

- b) Explain the function of a router in a computer network.

(6 marks)

- c) Describe any **THREE** types of servers used in a client/server network.

(6 marks)

- d) Discuss various network topologies giving advantages and disadvantages of each.

(12marks)

- Q2. a) Discuss **TWO** general types of connection that can be used to link two or more computer devices.

(6 marks)

- b) Describe the layers of the OSI Reference Model.

(14 marks)

- Q3. a) Describe the **THREE** categories of networks.

(6 marks)

- b) The internet has brought about both opportunities and challenges. Discuss.

(14 marks)

- Q4. a) Discuss any **FIVE** protocols found in the Application Layer of the TCP/IP Reference Model. **(10 marks)**
- b) Discuss the advantages of social networking sites for an information sciences student. **(10 marks)**
- Q5. Write a brief history of the internet noting the major changes that have happened over the years. **(20 marks)**

END