

NAME: _____ Stream....

ST: MARKS'S COLLEGE NAMAGOMA

UGANDA ADVANCED CERTIFICATE OF EDUCATION

Topic: Data Communication and Networking

SUBSIDIARY ICT

1 HOUR

INSTRUCTIONS TO CANDIDATES:

- Answer all questions in this paper

1. Give five advantages of using physical transmission media for data communication. (5 marks)

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2. (a) Identify any three examples of physical transmission media. (3 marks)

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- (b) State any two examples of communication protocols normally used in data communication (2 marks)

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3. Explain the following elements of data communication. (5 marks)

a) Sender

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b) Message

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c) Transmission medium

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d) Receiver

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e) Protocol

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4. a) Differentiate between guided and unguided transmission media.(2 marks)

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b) Suggest any three requirements for setting up a computer network.

(3 marks)

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5. a) Explain the difference between synchronous and asynchronous data transmission. (2 marks)

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b) State three modes of data transmission (3 marks)

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6. a) Define the term text Packet switching. (2 marks)

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b) Write down three factors to consider before setting up a computer network. (3 marks)

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7. a) Distinguish between LAN and WAN (2 marks)

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b) Identify three advantages of fiber optic cables within a LAN. (3 marks)

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8. a) What is a network model? (1 mark)

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c) Describe the two network models known to you. (4 marks)

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9. a) Distinguish with examples between Simplex and full duplex transmission as used in data communication and networks. (4 marks)

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- b) Name any one manual communication method. (1 mark)

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10. Write the following ICT acronyms in full. (5 Marks)

- a) VOIP

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- b) TCP

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- c) WLAN

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- d) Kbps

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- e) Hz

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"Diligent pursuit for excellence"