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### NATIONAL OPEN UNIVERSITY OF NIGERIA University Village, Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi – Abuja

### FACULTY OF SCIENCE

# DEPARTMENT OF COMPUTER SCIENCE

## 2022\_1 EXAMINATION

Course Code:	CIT303
Course Title:	Principles Of Communication Technology
Credit:	3 units
Time allowed:	3Hours
Instruction:	Answer Questions ONE (1) and any other THREE (3)

# QUESTIONS

- List any four (4) different forms in which data is represented nowadays (4marks)
- 1b.Define the term 'Data Communication'(3 marks)
- Outline and discuss the components of data communication. (10marks)
- 1d. Explain four characteristics that determine the effectiveness of a data communications system **(8marks)**
- 2a. Briefly define the following terms;
  - i. Cipher (2marks)
  - ii. Key **(2marks)**
- 2b. Explain the causes of transmission impairment. (9Marks)
- 2c. State two (2) key elements of a protocol. (2Marks)
- 3a. Differentiate between the following
  - i. A computer with a NOS and one without an NOS (6Marks)
  - ii. Peer-to-Peer and Client/Server networks (5Marks)
- 3b. Enumerate any four (4) services provided by Network security (4Marks)

4a. Enumerate and discuss three (3) major criteria that a network must be able to meet **(3Marks)** 

- 4b. With the aid of a well labeled diagram write a short note on the following possible connection types;
  - i. Point-to-Point (4Marks)
  - ii. Multipoint (3Marks)
- 4c. Briefly discuss the five (5) layers of the TCP/IP model (5marks)

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- 5b. State the role of the Session Layer of the OSI model (5Marks)
- 6a. Give two (2) major disadvantage of the bus topology (4marks)
- 6b. Differentiate between guided media and unguided media. (5Marks)
- 6c. Discuss possible technical barriers in VOIP. (6Marks)

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