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NATIONAL OPEN UNVERSITY OF NIGERIA SCHOOL OF SCIENCE AND TECHNOLOGY

Course Title: CIT 303: Principles of Communication Technology

Instruction: Attempt any five (5) questions

Credit Unit: 3

Date: Friday 25th January

Time: 3hrs

Question 1

a) Outline the layers of Open System Interconnection Reference Model (OSI Model), in the right order. (14 Marks)

b) Write briefly on the Data Link Layer. (6 Marks)

Question 2

- a) Cryptography algorithms (ciphers) can be divided into two groups, True or False?If True; (2 Marks)
- b) List the two groups. (6 Marks)
- c) Write briefly on the two groups (12 Marks)

Question 3

Contrast between Analog Signal Processing and Digital Signal Processing (20 Marks)

Question 4

- a) Outline four (4) basic Network Topologies. (1 mark each)
 - i) Write briefly on any three (6 Marks)
- b) List three guided Media. (3 Marks)
 - i) Write short notes on the three listed. (7 Marks)

Question 5

A data communications system has five components, list and define these components. (20 marks)

Question 6

The effectiveness of a data communications system depends on four fundamental characteristics.

- a) List these four fundamental characteristics. (2 Marks each = 8 marks)
- b) Write a brief on each of these four characteristics. (12 Marks)

Question 7

- a) Write briefly on Data Communications? (10 Marks)
- b) Write a short note on Protocols. (10 Marks)