



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2025_1 EXAMINATION

COURSE CODE: CIT 701

COURSE TITLE: Foundation of Information and Communication Technology

CREDIT: 3 Units

TIME ALLOWED: 3 Hours

INSTRUCTION: Answer Question ONE (1) and any other THREE (3)

- 1a. Define network topology. (3 marks)
- 1b. Explain any three network topologies (6 marks)
- 1c. What is security in WLAN (6 marks)
- 1d. Discuss three IT procedures you are familiar with. (9 marks)
- 1e. Identify any two basic elements of an email message (1 mark)

- 2a. Differentiate between computer hardware and computer software (4 marks)
- 2b. What is an IT Procedure? (2 marks)
- 2c. What is the difference between Intranets, Extranets and Internet? (9 marks)

- 3a. Distinguish between an operating system and an application program (4 marks)
- 3b. What do you understand by the terms downloading and uploading? (2 marks)
- 3c. What is a database management system (DBMS)? (4 marks)
- 3d. Who is the most valuable player in ICT application projects and what are his competent skills? (5 marks)

- 4a. Explain any three of the layers the seven layers of the OSI (Open Systems Interconnection) model (9 marks)
- 4b. Discuss the following e-commerce types
 - i. Business-to-consumer (3 marks)
 - ii. Consumer-to-consumer (3 marks)

- 5a. What are the data collection techniques the System Analyst use. (5 marks)
- 5b. Differentiate between security and breaches (5 marks)
- 5c. What are the technologies used in the manufacturing industry?

- 6a. List three network service applications you know (3 marks)
- 6b. What items must be taken into account when designing a distributed database system? (6 marks)
- 6c. Explain the difference between LAN, WAN, and MAN.. (6 marks)