



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
University Village, Plot 91, Cadastral Zone,  
Nnamdi Azikiwe Expressway, Jabi, Abuja  
**FACULTY OF COMPUTING**

**2024 1 EXAMINATION**

<b>Course Code:</b>	CIT701
<b>Course Title:</b>	Foundation of Information and Communication Technology
<b>Credit Unit:</b>	3
<b>Time Allowed:</b>	2½
<b>Instruction:</b>	Answer Question 1 and any other three (3) questions

- Q1** **25 marks**
- a. Explain the concept of Information and Communications Technology. (4 marks)
  - b. Enumerate and explain the function of three basic components of a computer. (9 marks)
  - c. Explain the concept of network topology. (3 marks)
  - d. Explain any three network topologies (6 marks)
  - e. Identify three major categories of computer hardware. (3 marks)
- Q2** **15 marks**
- a. Differentiate between computer hardware and computer software (4 marks)
  - b. What is an IT Procedure? (2 marks)
  - c. Discuss three IT procedures you are familiar with. (9 marks)
- Q3** **15 marks**
- a. Distinguish between an operating system and an application program (4 marks)
  - b. Briefly describe the concept database (2 marks)
  - c. Enumerate the steps for developing database applications (5 marks)
  - d. What is database normalization and why is it important? (4 marks)
- Q4** **15 marks**
- a. Explain the internet? How has it transformed communication and information sharing? (5 marks)
  - b. Discuss the following e-commerce types (6 marks)
    - (i) Business-to-consumer
    - (ii) Consumer-to-consumer
  - c. Network communications mediums that link different components of a network could be physical or wireless. Mention two examples for each medium. (4 marks)
- Q5** **15 marks**
- a. Explain any three of the layers the seven layers of the OSI (Open Systems Interconnection) model (9 marks)
  - b. Briefly describe a database management system (DBMS)? (4 marks)
  - c. Identify any two basic elements of an email message (2 marks)

Q6

- a. Describe the major functions of the central processing unit?
- b. What is a computer network and why is it important?
- c. Explain the key difference among LAN, WAN, and MAN.

**15 marks**

(4 marks)

(5 marks)

(6 marks)

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