



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2025_2 EXAMINATIONS

Course Code: CIT 722

Course Title: Computer Networks

Time: 3 Hours

Credit: 3 Units

Instruction: Attempt 4 questions. Question One (1) is Compulsory and any other Three (3)

1a. Trace the evolution of the Internet from its early beginnings to the 1990s. **(5marks)**

1b. Describe Emile Baudot's contribution to electronic communication and its significance. **(5marks)**

1c. Discuss the concept of multiplexing and its importance in network communication. **(5marks)**

1d. Describe the benefits of computer networks with relevant examples. **(10marks)**

2a. Discuss the historical significance of Samuel Morse's invention and its impact on electronic communication. **(5marks)**

2b. Define a network protocol and list its key elements. **(10marks)**

3a. Explain the difference between Address Resolution Protocol (ARP) and Reverse Address Resolution Protocol (RARP). **(7 marks)**

3b. Discuss the essential components required for a computer network to function. **(8marks)**

4a. Describe the role and characteristics of a file server in a network. **(7marks)**

4b. Explain the difference between switches and repeaters in a network. **(8marks)**

5a. Describe the primary functions of a Network Operating System. **(7marks)**

5b. List and explain the three most common network interface connections. **(8marks)**

6a. What are the advantages and disadvantages of a Peer-to-Peer network? **(5marks)**

6b. Compare and contrast Hypertext Transfer Protocol (HTTP) and File Transfer Protocol (FTP). **(10 marks)**