National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Asikiwe Expressway, Jabi – Abuja
Faculty of Sciences
2024_1 EXAMINATION

COURSE CODE: CIT 722
COURSE TITLE: COMPUTER NETWORKS
CREDIT: 3 Units
TIME ALLOWED: 3 Hours
INSTRUCTION: Question ONE is compulsory and any other three (3) questions

Question One

1a. i. With you knowledge and understanding as a networking student, discuss a Bridge as a Networking Hardware. [5 marks]

1a. ii. What are the considerations to make when choosing a Topology? [3marks]

1a. iii. From what is the word *protocol* derived and what does it mean? [1 mark]

1b. i. In the present usage, what does the term Ethernet refer to? [2 marks]

1b. ii. Without using any diagrams, state and discuss the TWO (2) major types of Network Operating System. [5 marks]

1c. i. What are Protocol Stacks? [1 mark]

1c. ii. Write a short note on Topology [3 marks]

1d. i. The Network Interface Card (NIC) is a very component of the networking hardware. Elaborately discuss the NIC. [3 mark]

1d. ii. List four (4) types of the most common topologies. [2 marks]

Question Two

2a. i. Write short notes on the following terms. [5 marks]
   i. FDDI
   ii. ARCNET

2a. ii. Describe the function of the layers of the OSI Model with one sentence for each layer. [1 mark]

2a. iii. Discuss the interaction between OSI Model Layers Protocols as it occurs in the Presentation Layer. [2 marks]

2b. i. As a network/system administrator, enumerate the three (3) configuration steps for setting up a client-server network. [3 marks]

2b. ii. Describe the Characteristics of the OSI 7 Layers Model [4 marks]