

School of University Polytechnic

Diploma in Computer Science and Engineering
Summer Term Examination – July - August 2024

Duration : 180 Minutes
Max Marks : 100

Sem III - N1DF303B - Data Communication and Computer Networks

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) Define Routing. K1(2)
- 2) Discuss the importance of Network Distributed processing. K2(4)
- 3) What do you understand by CIA in computer networking. K2(6)
- 4) What do you understand by ARQ, GO BACK ARQ and Selective ARQ K3(9)
- 5) Determine the difference between transport, and application layers. K3(9)
- 6) Examine the purpose of Protocols Stop and wait ARQ and Go-Back. K5(10)
- 7) Evaluate Difference between CSMA/CA and CSMA/CD K4(12)

- 8) Write in details about the CSMA/CD protocol. K5(15)
- 9) Examine the basic steps Time Division Multiple Access (TDMA) & Code Division Multiple Access (CDMA) with suitable example, K5(15)
- 10) Create an networks. The system should support the following operations: 1. Add Network: Create a cable is most commonly used to create a wired Ethernet network. 2. Create the 4 pairs of wires inside an Ethernet cable. 3. Create the different A and B Ethernet wiring. 4. Create the most common types of cables in a network. K6(18)