

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*

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| 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) |