

**School of University Polytechnic**

**Diploma in Computer Science and Engineering  
Summer/Backlog Semester End Examination -  
Jul 2024**

**Duration : 180 Minutes  
Max Marks : 100**

**Sem III - N1DF303B / DPCS2007- 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)