

No. of Printed Pages : 2

Sl. No.

**21CSC1C3L**

**M.Sc. I Semester Degree Examination, April/May - 2023**

**COMPUTER SCIENCE**

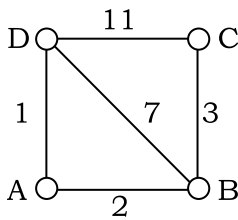
**Computer Networks**

Time : 3 Hours

Maximum Marks : 70

**Note :** Answer **any five** questions (Question No. 1 is **compulsory**)

1. (A) Explain the factors to measure Network performance in detail. 7  
(B) Discuss the functioning of DHCP. 7
2. (A) Explain IPV4 header format with neat diagram. 7  
(B) State Distance Vector Algorithm with example. 7
3. (A) What is Multicasting ? Explain the basic components involved in Multicast Communication. 7  
(B) Calculate the routing tables for the routers in the given network using Distance Vector Routing. 7



4. (A) Explain IPV6 addressing in detail. 7  
(B) List the strategies used for Transition from IPV4 to IPV6. 7
5. (A) Explain Congestion Control Mechanism. 7  
(B) Explain UDP Header format with a neat diagram. 7

**P.T.O.**

6. (A) What is Maximum Transmission Unit (MTU) and how does it relate to IP fragmentation ? **7**
- (B) Differentiate between Distance Vector and Link State Routing Protocols. **7**
7. (A) What is MDVP and how does it differ from unicast routing protocols ? **7**
- (B) How does TCP use Selective Acknowledgement (SACK) to improve Flow control ? **7**
8. Write short notes on the following : **4+5+5**
- (A) Subnetting
- (B) Border Gateway Protocol Version4 (BGPV)
- (C) Classful Addressing.

**- o o o -**

