

Roll No. ....

Exam Code : J-19

Subject Code—0393

**M. C. A. (Fourth Year) EXAMINATION**

(Five Year Integrated Course)

(For Batch 2009 Onwards Main & Re-appear)

COMPUTER NETWORKS-II

MCA-405

*Time : 3 Hours*

*Maximum Marks : 70*

**Section A**

**Note :** Attempt any *Seven* questions. **7×5=35**

1. What is the difference between broadcasting and multicasting with respect to TCP/IP internetworking ?
2. Define different Network Topologies.
3. Discuss IPv6 addressing.

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**P.T.O.**

4. Discuss about two-cross problem in mobile IP multicasting.
5. What is a firewall ? How does it work ?
6. Write a short note on routers.
7. Discuss the need of high speed networks.
8. Discuss about Socket Interface.
9. What is the need of ARP ?
10. Compare and contrast a circuit-switched network and a packet-switched network.

### **Section B**

**Note :** Attempt all the questions.

11. With neat diagram, explain TCP in detail.

*Or*

What is Routing ? Explain RIP routing protocol with example. **12**

12. Explain IPv6 features and its header format in detail.

*Or*

What is Switching ? Explain Packet switching with example. **12**

13. Explain RTP with its header format. **11**

*Or*

Write short notes on the following :

- (a) Video conferencing
- (b) Single user networked applications. **6,5**