

Roll No.

Exam Code : D-18

Subject Code—0423

M.C.A. (Fourth Year) EXAMINATION

(5 Years Integrated Course)

(Batch 2009 Onwards)

COMPUTER NETWORKS-II

MCA-405

Time : 3 Hours

Maximum Marks : 70

Section A

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

1. One of the addresses in a block is 17.63.110.114/24. Find the first address, and the last address in the block.
2. Explain the different between circuit switching and packet switching networks.
3. Discuss the future of IPv6.

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4. Differentiate between IPv4 and IPv6.
5. Explain the difference between bridge and switch.
6. Explain the concept of mapping between logical address and physical address.
7. Explain the use of Network Backbone.
8. Explain the Internet Architecture in brief.
9. Discuss about Firewalls.
10. How does RTP Protocol Works ?

Section B

Note : Attempt all the questions.

11. What is the need for High Speed Networks ? Explain different performance attributes in High Speed Networks. Discuss any *one* wired high speed network.

Or

What is the need of routing ? Explain the different Routing protocols in detail. **12**

12. What are the TCP and UDP ? Explain their header with the help of diagram.

Or

Explain the following :

- (a) IPSec
- (b) Mobile IP
- (c) Socket Interface
- (d) Router. **12**

13. What are Multimedia activities ? Differentiate between stand alone multimedia application and single user networked application.

Or

How do multimedia networking applications work ? Discuss with the help of examples. **11**