Subject Code—2085

M.C.A. (Fourth Year) EXAMINATION

(5 Year Integrated Course)

MCA-405

COMPUTER NETWORKS–II

Time : 3 Hours   *Maximum Marks :* 100

Note : Attempt any *Five* questions. All questions carry equal marks.

1. Explain architecture and design of IPSec. Also discuss internet security and firewall design.

    20

2. Explain high speed networks its need and performance attributes. Also discuss one technology (high speed n/w) each for high speed LAN and WAN.   **20**

3. Explain the following in reference to network :

    (a) Switches

    (b) Router

    (c) Bridges

    (d) Gateways

    (e) Hubs

    (f) Access Point.   **20**

4. Explain the following multimedia applications :

    (a) Stand alone multimedia applications

    (b) Single user networked applications.   **20**

    Also discuss mutlimedia networking.

5. Describe different fields of IPV4 and IPV6 frame header. Also compare both.   **20**

6. How flow control is achieved in TCP ? Also draw and explain TCP header.   **20**

7. Explain the following routing protocols :   **20**

    (a) AODV

    (b) DSR.

8. Write short notes on the following :

    (a) Mobile IP

    (b) UDP.   **20**