Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 65011

5 Year M.Sc. DEGREE EXAMINATION, MAY/JUNE 2013.

Eighth Semester

Computer Technology

XCS 483 — NETWORK PROTOCOLS

(Common to 5 Year M.Sc. Information Technology/5 Year M.Sc. Software Engineering)

(Regulation 2003)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Give the frame format of an IP Datagram.

2. List out the difference between TCP and UDP.

3. Define multicasting. Give a real time example.

4. Give the advantage of DHCP over BOOTP.

5. What is the usage of Remote login?

6. How heterogeneity is accommodated in Remote login?

7. In SMTP, if an online message between two users are send, how many lines of commands and responses are exchanged?

8. How a remote web server is identified?

9. Define firewall.

10. List the need for IP_{v6}.

PART B — (5 × 16 = 80 marks)

11. (a) Explain the congestion control mechanism adopted by TCP. (16)

Or

(b) Discuss few characters and message format of protocol used for routing in Inter Autonomous system. (16)

12. (a) (i) Explain the architecture and working principle of Mobile IP. (8)

(ii) Discuss the transmission and reception of data packets in Mobile IP. (8)

Or

(b) (i) What is the need for BOOTP and DHCP in wired networks. (6)

(ii) Explain the working of DHCP with the required message type. (10)

13. (a) Write short notes on Telnet, NFS and DNS. (16)

Or

(b) Explain the FTP with a neat sketch. (16)

14. (a) Describe in detail about the working of web server, browser and protocols used in www communication. (16)

Or

(b) Explain in detail about SMTP. (16)

15. (a) Discuss in detail about Internet security and Firewall design. (16)

Or

(b) Explain the protocols used for managing the Internet. (16)

————————