Register Number :

Name of the Candidate :

6 9 2 0

M.C.A. DEGREE EXAMINATION, 2009

(SECOND SEMESTER)

(PAPER - XII)

251. COMPUTER NETWORKS

(New Regulations)

December]   [Time : 3 Hours
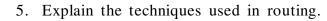
Maximum : 100 Marks

PART - A   (8 ×5 = 40)

Answer any EIGHT questions.
All questions carry equal marks.

1. Explain ring and hybrid topology in detail.

2. Write short notes on standards organisations.

3. Explain simplex stop and wait protocol.

4. Write short notes on synchronous data link control.

Turn Over

5. Explain the techniques used in routing.

6. Write short notes on LAN.

7. Explain traditional cryptography in detail.

8. Explain triple DES.

9. Explain simple mail transfer protocols.

10. Write short notes on encryption with private and public keys.

PART - B   (3 ×20 = 60)

Answer any THREE questions.
All questions carry equal marks.

11. Explain the three major functions of data link layers.

12. (a) Explain sliding window protocol with a neat illustration.   (10)

    (b) Explain protocol specifications and verification.

                                          (10)

13. Explain IEEE standard 802 for LAN in detail.

14. Explain congestion control with an example.

15. Explain the architecture and services of E-mailing system.