Register Number :

Name of the Candidate :

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M.C.A. DEGREE EXAMINATION, 2010

(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. Identify the five components of a Data Communication Networks.

2. Mention the network layer service goals.

3. Discuss the design issues for the layers.

4. Explain one-bit sliding window protocol.

Turn Over

5. Mention the principal conditions that influence routing decision.

6. What are the frame relay congestion control techniques ?

7. Compare symmetric and asymmetric cryptographic algorithms.

8. Write brief notes on ISO security.

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

10. Write short notes on LAN.

PART - B (3 ×20= 60)

Answer any THREE questions.
All questions carry equal marks.

11. Discuss in detail ISO-OSI model and explain the functions of various layers.

12. What is the need for error detection ? Explain any one effective error detecting technique with suitable example.

13. Why are there multiple LAN standards? List four common LAN topologies and describe their modes of operation.

14. Explain IEEE standard 802 for LAN in detail.

15. Discuss network management protocol.