

Roll No.

Exam Code : J-19

Subject Code—0413

M.C.A. (Third Year) EXAMINATION

(5 Years Integrated Course)

(Batch 2009 Onwards)

COMPUTER NETWORKS

MCA-301

Time : 3 Hours

Maximum Marks : 70

Section A

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

1. What do you understand by network topology ?
2. What is signal to noise ratio ?
3. What do you understand by carrier sense multiple access protocols ?

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P.T.O.

4. What is Token Bus (IEEE 802.4) ? Explain frame format of Token bus.
5. What is Hamming Code ?
6. Difference between broad cast routing and multicast routing.
7. Explain Transport Protocol Data Unit.
8. Explain AES and DES Encryption standard.
9. What is FDDI ?
10. What do you mean by pretty good privacy ?

Section B

Note : Attempt all the questions.

11. What do you understand by TCP/IP reference model ? Explain all layer with the help of diagram and example.

Or

Explain history and development of computer networks. **12**

12. Explain sliding window protocol with example.

Or

What do you understand by congestion control algorithms ? **12**

13. Explain ATM model in detail.

Or

What is Multimedia ? What do you understand by worldwide web ? **11**