

Roll No.

Total No. of Questions : 08]

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Paper ID [CS503]

(Please fill this Paper ID in OMR Sheet)

M.Tech. (Sem. - 1st)

NETWORK SECURITY (CS - 503)

MAY 2008

Time : 03 Hours

Maximum Marks : 100

Instruction to Candidates:

- 1) Attempt any **Five** questions.
- 2) **All** questions carry equal marks.

- Q1)** (a) What are responsibilities of application layer? How is security handled at this level?
(b) Discuss TCP/IP protocol in brief.
- Q2)** (a) Discuss MAC addressing for layer 2 devices.
(b) How is masking related to subnetting?
- Q3)** (a) What are the limitations of IPv4? How does IPv6 provide large address space?
(b) Discuss the compatibility of IPv6 with other technologies.
- Q4)** Discuss various security related issues related to mobile networks.
- Q5)** What is IP multicasting? What are its uses? Discuss about its components. What are its advantages over unicasting?
- Q6)** (a) What is address resolution protocol?
(b) What is the purpose of authentication header?

- Q7) (a) What are different port types and attachment methods for building FDDI networks?
- (b) How are unknown addresses handled in MAC?

Q8) Write short notes on:

- (a) Session Hijacking.
- (b) Digital signatures.

