Paper ID [CS503]

(Please fill this Paper ID in OMR Sheet)

M.Tech.

NETWORK SECURITY (CS - 503)

Time : 03 Hours   Maximum Marks : 100

Instruction to Candidates:

1) Attempt any **Five** questions.

2) **All** questions carry equal marks.

Q1) (a) Which of OSI layers are network support layers?

(b) How do the layers of TCP/IP protocol suite correlate to layers of OSI model?

Q2) (a) How is IP addressing done IPv6?

(b) What is the difference between fixed length and variable length subnet masking?

Q3) (a) How does IPv6 provide a better support for QoS?

(b) Discuss the protocols that are used in high speed MANs.

Q4) (a) What is multicasting? Discuss the routing for mobile hosts.

(b) What is session discovery?

Q5) What is IP multicasting? How it different from unicasting and broadcasting? Is it feasible to implement it at both data link and network layers?

Q6) (a) What is difference between MAC addressing and IP addressing? How are IP addresses converted into MAC addresses?

(b) Discuss TCP extension for high speed networks.

Q7) (a) What are major functional components of FDDI?

(b) How is security handled at application layer level?

Q8) Write short notes on :

(a) Gigabit Ethernet

(b) Digital certificates