

M. Tech.
NETWORK SECURITY
SUBJECT CODE : CS - 503
Paper ID : [E0683]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 100

Instruction to Candidates:

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

- Q1)** (a) In a secured socket layer (SSL) connection, is the session key chosen by the client or the server? How is it communicated to the other party.
(b) In context of FDDI, how are various counters / times operated? Under what conditions asynchronous allocation is not done?
- Q2)** (a) Show the DODB network topology and explain why this protocol is unfair.
(b) How is congestion window managed in the slow start algorithm in TCP.
- Q3)** (a) What are the security requirements of wireless networks?
(b) What are the main elements of GSM system architecture? Discuss the reasons of separate MS and SIM in GSM.
- Q4)** (a) What is mobile IP? Draw and describe the Mobile IP Architecture and its functional components.
(b) What is GPRS? Describe the GPRS Architecture and protocol.
- Q5)** What are various layers in TCP/IP? Discuss them. How is different from OSI layer.
- Q6)** What are various fast access technologies? Discuss them.
- Q7)** How will you justify the need of IP security along with other security features.
- Q8)** Write short notes on the following:
(a) Digital signature.
(b) IP Multicasting.
(c) IP V6 Vs IPV4.

