**Rajasthan Institute of Engineering & Technology, Jaipur**

**II Mid Term examination**

**Session: 2017-18**

**VI SEM Computer Engineering**

**COMPUTER NETEORKS**

**SET- B**

Time: 2 hrs. M.M.:20

**Instruction for students:**

No provision for supplementary answer book.

Q.1 Give a brief overview of Domain Name Service, outlining the basic packet structure and underlying protocols.

 OR

Q.1 Explain how Fast retransmit can be accomplished in conjunction of Flow Control.

Q.2 Compare and Contrast between Client-Server based and P2P based file sharing.

 OR

Q.2. Explain with the suitable example, how TCP implements Fairness when the bandwidth is distributed across a number of connections in the network.

Q.3 Give an overview of extended FSM model to implement reliable data transfer (rdt) over unreliable channel.

OR

Q.3. Derive the TCP delay model assuming Static Congestion Window. Also outline the effect of considering dynamic congestion window in TCP packet delays.

Q.4. Derive the mathematical model for the derivation of Estimation of Round Trip Time (RTT)

 OR

Q.4.Write Short Notes on

1. EWMA Technique for Estimation of RTT
2. TCP Connection Establishment and Release
3. World Wide Web and HTTP.