Question Bank for Unit 4 ACN - SCTP, Congestion Control and Quality of Service

1. Discuss the features of SCTP in detail.
2. Explain Multihoming and Multistreaming features of SCTP.
3. Explain how TSN, SI and SSN is used in SCTP.
4. Explain the packet format of SCTP with explanation of each field.
5. Compare the TCP segment header with SCTP packet header.
6. Discuss the common layout of an SCTP packet and the chunk layout.
7. Discuss the four way handshake procedure used in SCTP. Explain each step.
8. Explain how association termination happens in SCTP.
9. Discuss in detail Flow control in SCTP
10. Define Congestion. When does it happens?
11. Discuss why congestion happens in networks?
12. Discuss packet delay as a function of load on the network.
13. Discuss throughput as a function of load on the network.
14. What are the mechanisms used for congestion control?
15. Discuss the open loop congestion control policies in detail.
16. Discuss the closed loop congestion control policies in detail.
17. Discuss the different traffic descriptors and traffic profiles.
18. How congestion control happens in TCP? Explain briefly.
19. Explain slow start phase of congestion control with an example timeline diagram.
20. Explain congestion avoidance phase of congestion control with an example timeline diagram.
21. Explain congestion detection phase of congestion control with an example timeline diagram.
22. Write and explain FSM for Taho TCP.
23. Write and explain FSM for Reno TCP.
24. Discuss the different characteristics of a flow with their definitions.
25. Explain weighted fair queuing with neat diagram.
26. Explain the leaky bucket algorithm in detail.
27. Explain the Token bucket algorithm in detail.
28. Discuss Intserv model in detail.
29. What are the problems with Intserv model? How it can be solved in Diffserv model?
30. What are the traffic conditioners used to implement diffserv model.