

IMPORTANT TOPICS

- 1) TCP/IP and OSI Model
- 2) Network topology
- 3) Bit rate, baud rate
- 4) Data and Signal
- 5) Low pass channel and band pass channel.
- 6) How do the digital to analog conversion is carried out through ASK, FSK and PSK, explain with diagrams.
- 7) Different line coding techniques
- 8) Different networking devices –their working layer(s) and addressing used.
- 9) Circuit switching and packet switching, Compare and contrast between Virtual Circuit and Datagram packet switching
- 10) Responsibilities of data link layer, network layer and transport layer.
- 11) Transmission delay, propagation delay, throughput and efficiency in stop and wait
- 12) Deduce the expression for calculating the efficiency of stop and wait. How efficiency of Stop and Wait flow control depends on network size and length of data packet?
- 13) Problems in stop and wait and their solutions.
- 14) Write the differences between Go-Back-N and Selective Repeat flow control.
- 15) Single bit error and burst error, checksum, CRC, Hamming code
- 16) Aloha-pure aloha and slotted aloha, CSMA/CD
- 17) IP datagram, IP address 192.38.15.12. Write class, Net id and subnet mask of this IP.
- 18) In an organization given Net Id 192.138.12.0. Now we have to create four subnets. Calculate no of usable host for each subnet, subnet id, broadcast address and subnet masking for each subnet
- 19) Distance vector routing and link state routing
- 20) TCP Header structure, Write the differences between TCP and UDP, Explain 3 way handshaking in TCP connection establishment
- 21) Application layer services
- 22) FTP, WWW