

6/6/2011

T-E Computer V
Computer Network

Con. 3460-11.

RK-2079

(3 Hours)

[Total Marks : 100

- N.B. :** (1) Question No. 1 is compulsory.
(2) Attempt any four questions from the remaining.
(3) Draw neat diagrams wherever required.

1. (a) Explain the difference between OSI and TCP/IP Model. (05)
(b) Explain different framing methods. (05)
(c) Explain ALOHA in detail. (05)
(d) Differentiate TCP and UDP. (05)
2. (a) Describe OSI Reference Model with a neat diagram. (10)
(b) Explain sliding window protocol using Go Back-N technique. (10)
3. (a) Explain any five functions of Data Link layer with suitable example (10)
(b) Explain the working of network components and state in which layer they work. Repeaters, Hubs, Bridges, Switches, Routers, Gateways. (10)
4. (a) Differentiate between Virtual Circuit and Datagram Networks. (10)
(b) Explain Distance Vector Routing and its count to infinity problem. (10)
5. (a) What is IPv4 protocol? Explain the IPv4 Header format with diagram. (10)
(b) Explain three way Handshake techniques in TCP. (10)
6. (a) For the message frame 1101011011 and $G(x) = x^4 + x + 1$, Show the transmitted frame. (10)
(b) Explain Classless Inter Domain Routing (CIDR). (10)
7. Write short notes on (any two); (20)
 - (a) HDLC.
 - (b) BLUETOOTH.
 - (c) QoS of internetworking.
 - (d) Digital Subscriber Line (DSL) & its types.