

Total No. of Questions : 10]

SEAT No. : **P2265**

[Total No. of Pages : 2

[5254]-602
B.E. (E & TC)
COMPUTER NETWORKS
(2012 Pattern) (Semester - I)

*Time : 2½ Hours]**[Max. Marks : 70**Instructions to the candidates:*

- 1) Answer Q. 1 or Q. 2, Q. 3 or Q. 4, Q. No. 5 or Q. 6 or Q. 7 or Q. 8. Q. 9 or Q. 10.
- 2) Neat diagram must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.

Q1) a) Explain UTP? Why it is twisted? **[5]**

b) Explain sliding Window Protocol? **[5]**

OR

Q2) a) Explain Selective Repeat ARQ Protocol used for Noisy channel? **[5]**

b) Explain Bluetooth Profile? **[5]**

Q3) a) Explain Microwave Transmission in unguided transmission media? **[4]**

b) Explain Non Persistent, 1-Persistent, P-Persistent CSMA? **[6]**

OR

Q4) a) Write a short note on Zigbee? **[4]**

b) Explain LCP & NCP used in PPP stack? **[6]**

Q5) a) Explain NAT, ARP at Network Layer? **[8]**

b) Explain ICMP_{v4}? **[4]**

c) List and Explain different types of addresses used in IP_{v6}? **[5]**

OR

Q6) a) Explain Transition strategies from IP_{v4} to IP_{v6}? **[8]**

b) Explain Forwarding and Delivery in IP_{v6}? **[9]**

P.T.O.

- Q7)** a) Explain different services provided by Transport Layer? [6]
b) Explain three way handshakes during connection establishment at Transport Layer? [5]
c) Explain Transport Service Primitives? [6]

OR

- Q8)** a) Explain a Real Time Transport Protocol? [6]
b) Draw and Explain TCP segment Header? [6]
c) Explain User datagram Protocol? [5]

- Q9)** a) Explain different services provided by user agent in e-mail system? [6]
b) Explain URL and Cookies? [6]
c) Compare Persistent and Non persistent HTTP connections? [4]

OR

- Q10)** a) Explain file Transfer Protocol? [6]
b) Write short note on DNS? [6]
c) Explain Authorization Vs Authentication? [4]

