P2265

[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_v4?   **[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]**

❁ ❁ ❁