

Total No. of Questions :8]

SEAT No. :

[Total No. of Pages :2

**P3987****[4959]-1082****B.E. [E & TC]****Computer Networks  
(2012 Course) (404182)***Time : 2½ Minutes**[Max. Marks :70]**Instructions to the candidates:*

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume suitable data, if necessary.*

- Q1)** a) Draw TCP/IP reference model and explain functions of each layer. [7]  
b) State & explain in brief the functions associated with Data Link Layers in OSI model. [7]  
c) Explain the sliding window protocols in brief. [6]

OR

- Q2)** a) Draw the Blue tooth architecture and explain the functions of different layers in Bluetooth. [7]  
b) With an appropriate example, explain character stuffing and bit stuffing in data link layer. [7]  
c) Explain Basic service Set and Extended Service set in WLAN. [6]

- Q3)** a) Draw and explain the header format for IPv6. [6]  
b) List the various protocols giving their significance at transport Layer. [6]  
c) Give general format of ICMP and explain different types of error reporting messages used in ICMP. [6]

OR

**P.T.O.**

- Q4)** a) Draw and explain IPv6 frame format. [6]  
 b) Write short notes on. [6]  
 i) ARP.  
 ii) RARP.  
 c) Explain the concept of delivery and its different types used in network. [6]

- Q5)** a) Explain the TCP connection management in Client/Server model. [6]  
 b) What are the duties of Transport Layer? List the services provided by Transport Layer to upper layers. [6]  
 c) Write a short note on congestion control. [4]

OR

- Q6)** a) Compare between TCP and UDP. Under what circumstances you will use them. [6]  
 b) List the typical QoS parameters in the Transport Layer and explain each one. [6]  
 c) Draw the UDP segment format. Explain its various fields and their use. [4]

- Q7)** a) What is the purpose of FTP? What are the three FTP transmission modes? Explain [6]  
 b) Write short notes on www & internet. [6]  
 c) With an appropriate example, explain the Public key algorithm. [4]

OR

- Q8)** a) Explain the security aspects of intranet and internet. [6]  
 b) Write short note on Firewall. [6]  
 c) Explain the Transposition cipher with its advantages and disadvantages. [4]

