Total No. of Questions : 12]

SEAT No. :

P2453

[Total No. of Pages : 2

[5153]- 87
T.E. (Computer Engineering)
COMPUTER NETWORKS
(2008 Pattern) (Semester - II)

Time :3 Hours] *[Max. Marks :100*

Instructions to the candidates:

1) ***Answer 3 questions from Section I and 3 questions from Section II***
2) ***Answers to the two sections should be written in separate books.***
3) ***Neat diagrams must be drawn wherever necessary.***
4) ***Figures to the right indicate full marks.***
5) ***Assume suitable data, if necessary***

SECTION - I

Q1) a) Discuss OSI model of computer Networks in detail. **[6]**

b) What are different service models? Discuss TCP model of computer Networks? **[6]**

c) Discuss any three application layer services. **[6]**

OR

Q2) a) Describe Domain Name System in detail. **[6]**

b) What is HTTP? Discuss the need for FTP. **[6]**

c) Write a short Note on TELNET. **[6]**

Q3) a) What are the different transport services? Discuss any two in detail. **[8]**

b) Discuss TCP/IP connection management in detail. **[8]**

OR

Q4) a) Discuss congestion control protocols in detail. **[8]**

b) Discuss the header formats of **[8]**

i) TCP

ii) UDP

Q5) a) What QoS? How to achieve QoS? **[8]**

b) Discuss any two scheduling Algorithms in detail. **[8]**

OR

P.T.O.

Q6) a) What are the different differentiated services? Discuss any two. **[6]**

b) Write a short note on integrated services? What is RSVP protocol discuss? **[10]**

SECTION - II

Q7) a) Discuss-

i) IPV4 ii) IPV6 in detail. **[8]**

b) Discuss Network layer Design issues? **[8]**

OR

Q8) a) What is ARP? What is RARP? Compare & contrast? **[8]**

b) Write a short note on ICM protocol (V4 & V6). **[8]**

Q9) a) Discuss distance vector routing in detail. **[6]**

b) What do you mean by IP routing ? Give the classification of IP routing protocols. **[6]**

c) Discuss IGRP in detail. **[6]**

OR

Q10) Write short Notes on-

i) RIP ii) OSPF iii) BGP **[18]**

Q11) a) What is HDLC discuss in detail. **[4]**

b) What are the different PPPprotocols? Discuss. **[8]**

c) What is hub? How it is different than switch? **[4]**

OR

Q12) a) What do you mean by link virtualization? How it is been done? **[8]**

b) What are routers? Describe? **[4]**

c) Discuss Pridges in detail? What are they used for? **[4]**