

Total No. of Questions : 08]

SEAT No. :

P3625

[Total No. of Pages : 2

**[4959] - 1112**  
**B.E. (Electronics)**  
**Computer Network**  
**(2012 Course) (Semester - II)**

*Time : 2.30 Hours]*

*[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) Explain TCP/IP Reference Model [7]  
b) Explain the architecture of 802.11 standard [6]  
c) What is flow control? Explain the flow control in Data link layer [7]

OR

- Q2)** a) Explain with suitable diagram internet network [7]  
b) What are the factors that affect the maximum data rate limit? Explain the Maximum data rate limit for noiseless and noisy channel [6]  
c) Explain the behavior of three persistence methods in CSMA [7]

- Q3)** a) Explain the network layer Designing issues [6]  
b) What is congestion control? What are the congestion control categories? Explain back pressure closed loop congestion control [6]  
c) Compare IPV4 Vs IPV6 [4]

OR

- Q4)** a) Explain the distance vector routing algorithm [6]  
b) What is traffic shaping? Explain leaky bucket algorithm [6]  
c) Explain the Address Resolution Protocol [4]

**P.T.O.**

- Q5)** a) What is symmetric key cryptography? Explain the substitution cipher[6]  
b) Explain the RSA algorithm [6]  
c) key Compare Symmetric and Asymmetric key cryptography [4]

OR

- Q6)** a) Explain the Protocol Analyzer [6]  
b) Explain the Data Encryption Standard with suitable diagram [6]  
c) Explain the message confidentiality using asymmetric key cryptography[4]

- Q7)** a) Explain Electronic mail system [6]  
b) Explain the architecture of world wide web (WWW) [6]  
c) What are the main responsibilities of application layer? Explain in brief[4]

OR

**Q8)** Write a short notes

- a) HTML [6]  
b) FTP [5]  
c) P2P File sharing [5]

