

B.Tech. Degree VIII Semester Examination, April 2008

EE/EB/EC/EI 803 COMPUTER NETWORKS (1999 - 2001 Scheme)

Time: 3 Hours

Maximum Marks: 100

- I Explain the ISO-OSI model clearly stating the functions of each layer. (20)
- OR**
- II a) What is the need for networking? Explain various network topologies? (10)
b) Explain the need of layering. What are layers, protocols and interfaces.? (10)
- III a) Explain sliding window protocol. (10)
b) Explain synchronous and asynchronous transmission. (10)
- OR**
- IV Write short notes on:
i) X-21 digital interface
ii) Polling
iii) MODEMS
iv) Multiplexing (20)
- V a) What is routing? Explain any two routing algorithms. (12)
b) Explain various IEEE 802 standards. (8)
- OR**
- VI a) What are carrier sense networks? Explain CSMA/CD. (10)
b) What is congestion control? Explain any one congestion control algorithm. (10)
- VII Explain connection management and connection establishment in the transport layer with neat diagrams. (20)
- OR**
- VIII a) Explain Remote Procedure Call. (10)
b) What are the different functions of session layer? Explain the design issues of session layer. (10)
- IX a) What is cryptography? Explain the RSA algorithm. (10)
b) Write short notes on:
i) FTP ii) E-mail (10)
- OR**
- X a) Describe DES (Data Encryption Standard). (10)
b) Explain any two data compression techniques. (10)

