

B. Tech Degree VIII Semester Examination, April 2009

EE/EB/EC/EI 803 COMPUTER NETWORKS

(1999 Scheme)

Time : 3 Hours

Maximum Marks : 100

- I. (a) What are the goals of computer networks? (5)
(b) What are protocols, layers and interfaces? (5)
(c) Discuss ISO-OSI model with figure. (10)
- OR**
- II. (a) Explain the different network topologies. (8)
(b) What are peer entities? (4)
(c) Discuss different internet services. (8)
- III. (a) Explain synchronous and asynchronous transmission. (8)
(b) Explain stop and wait sliding window protocol. (12)
- OR**
- IV. (a) Discuss the difference between baseband and broadband transmission. (6)
(b) Explain X.21 interface with neat diagram. (8)
(c) What are the different types of frames in HDLC? (6)
- V. (a) Explain
(i) flooding (ii) hierarchical-routing
(iii) broad cast routing (iv) shortest path routing (10)
(b) Explain IEEE 802.4 token bus. (10)
- OR**
- VI. (a) Describe any two congestion control algorithms. (10)
(b) Draw the frame format of IEEE 802.5 token ring and explain. (10)
- VII. (a) Explain flow control and buffering in transport layer. (10)
(b) Explain Remote Procedure Call (RPC). (10)
- OR**
- VIII. (a) Explain different services provided by the transport layer. (10)
(b) Explain dialog management and synchronization in session layer. (10)
- IX. (a) Discuss network security and privacy in detail. (10)
(b) Write short notes on :
(i) E mail (ii) FTP (10)
- OR**
- X. (a) What is public key cryptography? Explain RSA algorithm. (10)
(b) Explain any two compression techniques. (10)

