

***B. Tech Degree VII Semester (Supplementary) Examination  
July 2009***

**EB/EI/EE 701 COMPUTER COMMUNICATION AND NETWORKS  
(2002 Scheme)**

Time : 3 Hours

Maximum Marks : 100

- I. (a) Explain various network topologies. (12)  
(b) What is the need of layering approach in Computer Network? (8)  
**OR**
- II. (a) With the help of a diagram, explain ISO – OSI layers and their functions. (14)  
(b) Discuss different internet services. (6)
- III. Differentiate between the following :  
(i) Base band and broad band transmission (7)  
(ii) Synchronous and asynchronous transmission (7)  
(iii) Full duplex and half duplex links (6)  
**OR**
- IV. (a) Explain stop – and – wait sliding window protocol. (10)  
(b) Explain X – 21 digital interface. (10)
- V. (a) What is the need for congestion control? Explain any one congestion control algorithm. (12)  
(b) Write a short note on CSMA / CD. (8)  
**OR**
- VI. (a) Explain any one routing algorithm. (10)  
(b) Explain different IEEE 802 standards. (10)
- VII. Write notes on :  
(i) Flow control and buffering  
(ii) Multiplexing  
(iii) Crash recovery  
(iv) Activity management (4 x 5 = 20)  
**OR**
- VIII. (a) Explain the implementation of RPC with the help of a diagram. (10)  
(b) Explain client server model. (10)
- IX. (a) Explain the functions of presentation layer. (10)  
(b) Explain different data compression techniques. (10)  
**OR**
- X. Write short notes on :  
(i) Virtual terminal  
(ii) FTP  
(iii) Electronic mail  
(iv) Cryptography. (4 x 5 = 20)

\*\*\*

