

B.Tech. Degree VII Semester Examination, November 2008

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

Time: 3 Hours

Maximum Marks: 100

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|-----------|------|--|-------------------------|
| I | a) | With a neat diagram, explain the ISO OSI layers and their functions. | (15) |
| | b) | Explain the various applications of computer networks. | (5) |
| OR | | | |
| II | a) | Explain the various network topologies. | (10) |
| | b) | Differentiate between connection oriented and connection less sources. | (10) |
| III | a) | What is a modem? What are its functions? Explain in detail any one type of modem. | (10) |
| | b) | Explain X-21 digital interface. | (10) |
| OR | | | |
| IV | a) | Explain in detail about stop and wait sliding window protocol. | (10) |
| | b) | Write <u>notes</u> on : | |
| | i) | Terminal handling | ii) Polling |
| | | | (10) |
| V | a) | What is the need for congestion control? Explain any one congestion control algorithm. | (10) |
| | b) | Explain the working of Token ring network. | (10) |
| OR | | | |
| VI | a) | Write <u>notes</u> on: | |
| | i) | IEEE 802 standard | ii) CSMA/CD |
| | b) | What do you mean by routing? Explain any one routing algorithm. | (10) |
| | | | (10) |
| VII | a) | Explain about: | |
| | i) | Remote procedure call | ii) Client-server model |
| | b) | What are the functions of transport layer? | (15) |
| | | | (5) |
| OR | | | |
| VIII | | Write <u>notes</u> on: | |
| | i) | Multiplexing | |
| | ii) | Crash recovery | |
| | iii) | Flow control and buffering | |
| | iv) | Activity management | (20) |
| IX | a) | What is meant by data compression? Explain any one technique. | (10) |
| | b) | Explain concurrency control in file transfer. | (10) |
| OR | | | |
| X | | Write <u>short notes</u> on: | |
| | i) | Cryptography | |
| | ii) | Electronic mail | |
| | iii) | Distributed systems | |
| | iv) | Virtual terminal | (20) |

