

**D 26532**

Name.....

Reg. No.....

**SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE  
EXAMINATION, DECEMBER 2006**

**EC 2K 704—COMPUTER COMMUNICATION AND NETWORKING**

Time : Three Hours

Maximum : 100 Marks

*Answer all questions.*

1. (a) Write ARQ retransmission strategies.  
(b) Give the OSI model.  
(c) Write the features of SONET.  
(d) Briefly explain the routing optimization in circuit switched networks.  
(e) Write short notes on M|M|I queueing system.  
(f) State Little's Theorem.  
(g) Write short notes on IP over ATM.  
(h) Write the concept of statistical multiplexing.

(8 × 5 = 40 marks)

2. (a) Discuss the characteristics of communication networks.

*Or*

- (b) Explain the flow control and congestion control in communication networks.

(15 marks)

3. (a) Discuss the TCP congestion control and congestion avoidance.

*Or*

- (b) Explain the routing optimization in datagram networks.

(15 marks)

4. (a) Discuss the queueing models for datagram networks.

*Or*

- (b) Discuss mean value analysis.

(15 marks)

5. (a) Explain signaling and routing in ATM networks.

*Or*

- (b) Discuss the handover scenarios in wireless ATM.

(15 marks)

[4 × 15 = 60 marks]