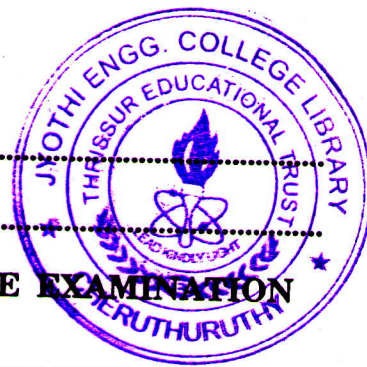


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Name.....

Reg. No.....



**SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION
DECEMBER 2008**

**EC 04 704—COMPUTER COMMUNICATION AND NETWORKING
(2004 Admissions)**

Time : Three Hours

Maximum : 100 Marks

Answer all the questions.

- I. (a) Write the features of IPV4.
(b) List the characteristics of communication networks.
(c) Explain how the window adjustment is made in TCP.
(d) Write the concept of SDH.
(e) Write Little's theorem.
(f) Discuss the M/M/I queueing systems.
(g) List the features of ATM.
(h) Draw the ATM header structure.
- II. (a) Explain the concepts of flow control in computer, networking. (8 × 5 = 40 marks)
(15 marks)
Or
(b) Discuss ARQ retransmission strategies in detail. (15 marks)
- III. (a) Explain the routing optimization in datagram networks. (15 marks)
(15 marks)
Or
(b) Discuss the functions of SONET. (15 marks)
- IV. (a) Describe the discrete time and continuous time markov chains. (15 marks)
(15 marks)
Or
(b) Describe M/M/m/m queueing models. (15 marks)
- V. (a) Discuss the concept of statistical multiplexing in ATM networks. (15 marks)
(15 marks)
Or
(b) Discuss the concepts of IP over ATM. (15 marks)
- (4 × 15 = 60 marks)