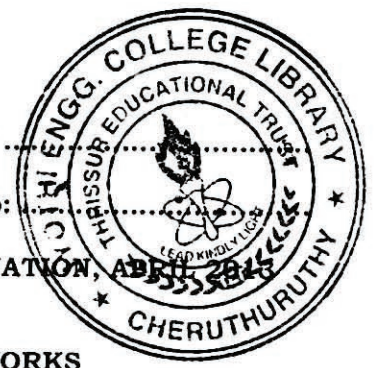


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Name :

Reg. No:



EIGHT SEMESTER B.TECH ENGINEERING DEGREE EXAMINATION, APRIL 2009
(2009 Admission)

EC 09 801 DATA AND COMMUNICATION NETWORKS

Time: 3 hours

Maximum: 70 marks

Part A

1. What is a Markov Chain ?
2. What is an ARQ strategy ?
3. State the difference between slotted and pure ALOHA ?
4. Define Blocking probability.
5. State any two features of DMS - 100 switch.

(5 X 2 = 10 marks)

Part B

6. Write a note on Little's formula.
7. What are the basic requirements for a queuing model ?
8. Explain the sliding window protocol.
9. Write a note on SONET.
10. Explain Erlang formula.
11. What is a Digital Switching Network ? Explain

(4X5 = 20 marks)

Part C

12. Explain Discrete time and continuous time Markov chain.
Or
13. Explain M/M/m/m queuing model.
14. Explain the various layers of ISO -OSI model.
Or
15. Explain any one character oriented and bit oriented protocol.
16. Explain in detail about (i) CSMA CD (ii) Ethernet.
Or
17. Discuss in detail about ATM.
18. Explain the analysis of blocking models and delay models.
Or
19. (a) Explain the blocking probability analysis of multistage switches.
(b) Explain Lee's approximation.

(4X10 = 40 marks)
