

ANNA UNIVERSITY COIMBATORE
M.E. / M.TECH. DEGREE EXAMINATIONS : JUNE – JULY 2009

REGULATIONS - 2007

SECOND SEMESTER

071630004 - HIGH SPEED NETWORKS

(COMMON TO COMPUTER & COMMUNICATION / COMPUTER SCIENCE & ENGG.)

TIME : 3 Hours

Max.Marks : 100

PART – A

(20 x 2 = 40 MARKS)

ANSWER ALL QUESTIONS

1. Compare X.25 and frame relay protocol
2. Define non real time service
3. Write about binary exponential back off.
4. What is the need for AAL?
5. Write little's formula for single server queue.
6. Compare multi server and multiple single server queues.
7. Differentiate the implicit and explicit congestion signaling.
8. Mention the TCP implementation policy options.
9. Define slow start Algorithm
10. State the conditions that must be met for a cell to confirm.
11. Write KARN'S Algorithm
12. Mention any two performance of TCP over ATM
13. Define Fuis Queuing (FQ)
14. Write RED Algorithm.
15. Define per hop behavior
16. What is meant by label swapping?
17. Draw the RTP header format.
18. Define Virtual private network support.

19. What is a mixer in RTP?
20. What is a wild card filter style?

PART – B

(5 x 12 = 60 MARKS)

ANSWER ANY FIVE QUESTIONS

21. a) Describe the architecture of 802.11. 8
- b) Explain the operations various AAL Protocols. 4
22. a) What are the major strengths of fiber channel? 4
- b) Explain and compare gigabit and fast Ethernet 8
23. a) Explain any four congestion control mechanisms used in packet switching networks. 8
- b) Describe the need for queuing analysis. 4
24. a) Discuss the various issues related to ABR traffic management. 8
- b) What are the ATM traffic parameters and QOS parameters defined by ATM. 4
25. a) Explain various queuing disciplines used in ISA implementation. 6
- b) What are the components of ISA? 6
26. a) Explain the RTCP with neat sketch. 8
- b) Write short note on GPS. 4
27. a) Explain the RSVP reservations with neat sketch. 6
- b) Explain the DS configuration and operation. 6
28. a) Write the characteristics of MPLS. 6
- b) Explain the different types of PHP. 6

*****THE END*****