Reg. No. : | | | | | | | | | | |

Question Paper Code: 31942

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2016

Elective

Electronics and Communication Engineering

01UEC908 - HIGH SPEED NETWORKS

(Regulation 2013)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. What is meant by cell in ATM?
2. Write the applications of AAL.
3. List out the objectives of frame relay congestion control.
4. What are the characteristics of queue process?
5. What are the techniques to calculate the retransmission timer?
6. Define Allowed Cell Rate.
7. Give any two drawbacks of fair queue scheme.
8. Write the design goals for random early detection.
9. Draw the label format of MPLS.
10. What are the applications of real time protocol?

PART - B (5 x 16 = 80 Marks)

11. (a) Explain in detail about ATM adaptation layer. (16)

Or

(b) Describe about the wireless LANs applications, requirements and architecture of 802.11 with a neat sketch. (16)

12. (a) Write short notes on single server queue and multi server queue with a neat sketch. (16)

Or

(b) Explain the frame relay congestion control in detail. (16)

13. (a) Describe the requirements and attributes of traffic and congestion control in ATM. (16)

Or

(b) Discuss the following;

(i) ABR RM cell format (8)

(ii) ABR capacity allocation (8)

14. (a) (i) Discuss the ISA service categories and brief the concept of token bucket scheme. (8)

(ii) What are the drawbacks of FIFO queuing discipline? Give a brief note on processor sharing. (8)

Or

(b) Explain in detail about differentiated services. (16)

15. (a) With neat diagram, describe the operation of RSVP. Also elaborate the reservation styles with example. (16)

Or

(b) Draw and explain the architecture of RTP. Also discuss the RTP control protocol. (16)
