Reg. No. :

Question Paper Code: 31482

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

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. What is the need for AAL?

3. List out the objectives of frame relay congestion control.

4. What is single server queue?

5. What is exponential RTO back off?

6. Define Allowed Cell Rate.

7. Give some applications that follow elastic traffic.

8. Write the design goals for random early detection.

9. What is meant by a flow descriptor?

10. What are the applications of real time protocol?

PART - B (5 x 16 = 80 Marks)

11. (a) (i) Explain call control procedure in frame relay networks.   (8)

    (ii) Briefly describe the ATM architecture.   (8)

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) (i) Describe the effects of congestion in detail.   (8)

    (ii) Describe in detail about traffic management.   (8)

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

Or

    (b) (i) Explain in detail about KARN's algorithm and window management. (8)

    (ii) Explain TCP Congestion control in detail.   (8)

14. (a) (i) Draw the integrated service architecture and explain in detail. (8)

    (ii) Explain fair queuing in detail.   (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) (i) Explain the MPLS forward packet procedure with neat diagram.   (8)

    (ii) Explain the functions and messages types of the RTP control protocol. (8)

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