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Question Paper Code: 39408

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

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 the need for AAL?
2. Write the requirements of high speed LANs.
3. What is single server queue?
4. List out the fields of frame relay protocol unit.
5. What are the techniques to calculate the retransmission timer?
6. Define Allowed Cell Rate.
7. Give some applications that follow elastic traffic.
8. State the performance parameters that should be in the SLA for a DS document.
9. State the label format of MPLS.
10. Define flow specification in RSVP.

PART - B (5 x 16 = 80 Marks)

11. (a) (i) Explain the ATM cell with a suitable diagram and explain Generic Flow Control and Header error control. (8)
- (ii) Explain various ATM services. (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) Explain the frame relay congestion control in detail. (16)
13. (a) Explain the five important window management techniques. (16)

Or

- (b) Discuss about GFR traffic management in detail. (16)
14. (a) What are the drawbacks of FIFO queuing discipline? Give a brief note on processor sharing. (16)

Or

- (b) (i) Explain differentiated services architecture in detail. (8)
- (ii) Explain in detail the way in which RED technique overcomes congestion. (8)
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 message types of the RSVP control protocol. (8)