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Question Paper Code: 37804

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Seventh Semester

Information Technology

01UIT704 - HIGH PERFORMANCE NETWORKS

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. List the applications of Constant Bit Rate (CBR).
2. State about commercially available layer 2 switches.
3. Mention the objectives of frame relay congestion control.
4. What are the effects of network congestion?
5. List out the various ATM service categories.
6. List the parameters are considered for GFR traffic contract.
7. Define GPS.
8. What are the design goals of RED algorithm?
9. State the design goals of RSVP.
10. Mention about label switching in MPLS network.

PART - B (5 x 16 = 80 Marks)

11. (a) Explain the ATM protocol architecture with a neat block diagram. (16)

Or

(b) Explain in detail about 802.11 architecture. (16)

12. (a) Explain the Queuing models in detail. (16)

Or

(b) Explain Frame Relay congestion control in detail with neat diagrams. (16)

13. (a) Explain KARN's algorithm in detail. (16)

Or

(b) Describe about the ABR capacity allocation. (16)

14. (a) Explain the Queuing discipline of an ISA implementation. (16)

Or

(b) Explain the differentiated services operations and the traffic conditioning functions in detail. (16)

15. (a) (i) Explain the features of MPLS. (8)

(ii) Explain the reservation style of the RSVP in detail. (8)

Or

(b) Explain the RTP protocol architecture in detail. (16)