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Question Paper Code: 31784

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

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. List the characteristics to be considered for the queuing model.
4. Mention the objectives of frame relay congestion control.
5. Define Early Packet Discard (EPD).
6. List the parameters are considered for GFR traffic contract.
7. Write the services provided by ISA.
8. Define GPS.
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) (i) Explain queuing analysis and its types. (8)

(ii) Explain about traffic management in packet switching. (8)

Or

(b) (i) Discuss briefly the effects of congestion in networks. (8)

(ii) Explain frame relay congestion control with a neat sketch. (8)

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

Or

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

14. (a) Explain ISA services in detail. (16)

Or

(b) Explain the differentiated services operation 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)