Reg. No. : ☐☐☐☐☐☐☐☐☐☐

Question Paper Code: 31874

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

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. What are the AAL services?

2. List out the physical Media defined in 802.11.

3. Differentiate multi-server queues and multiple single server queues.

4. State the use of Discard Eligibility (DE) bit.

5. Define packet self-routing property.

6. List out all ATM Service Categories.

7. What is meant by elastic traffic? Give example.

8. What are the design goals of RED algorithm?

9. Why receiver is responsible to initiate reservation in RSVP?

10. Define label swapping in MPLS.

PART - B (5 x 16 = 80 Marks)

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

Or

(b) Discuss in detail about IEEE 802.11 Requirements, services and architecture. (16)

12. (a) Explain the effects of congestion and the congestion control mechanisms with neat sketch. (16)

Or

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

13. (a) (i) Explain the algorithm which is used to estimate RTT variance. (8)

(ii) Explain about TCP window management in detail. (8)

Or

(b) (i) List and explain the ATM traffic Parameters in detail. (8)

(ii) Explain GFR Traffic management in detail. (8)

14. (a) Explain various queueing disciplines and its limitations with neat sketch. (16)

Or

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

15. (a) (i) Explain about RSVP reservation attributes and styles in detail. (8)

(ii) Discuss MPLS operation with neat sketch. (8)

Or

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

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