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Question Paper Code : 41290

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Seventh Semester

Electronics and Communication Engineering

080290066 — HIGH SPEED NETWORKS

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is ISDN?
2. What is ADSL?
3. Write the applications of MPLS protocol.
4. What is UNI signaling?
5. Define voice Truncing.
6. What is Ethernet?
7. Define quality of service.
8. Define congestion control.
9. List out applications of ATM.
10. Define efficiency and scalability.

PART B — (5 × 16 = 80 marks)

11. (a) Explain the structure and functioning of ISDN with neat diagrams. (16)

Or

- (b) Describe the operation and requirements of ATM and MPLS with neat sketches. (16)

12. (a) Discuss about ATM control plane structure and control plane addressing with suitable illustrations. (16)

Or

(b) Explain about MPLS control plane architecture. (16)

13. (a) Explain the followings

(i) Packet voice networking (8)

(ii) Voice Truncking (8)

Or

(b) Explain about multiprotocol encapsulation over AALS. (16)

14. (a) Explain about different classes of services of QoS. (16)

Or

(b) Explain about congestion control and management of QoS. (16)

15. (a) Explain about Congestion Analysis, Scalability Analysis and Complexity Analysis. (16)

Or

(b) Explain about different applications of ATM and MPLS. (16)