

5/12/14/FW
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Reg. No. :

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Question Paper Code : 91349

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Fifth Semester

Computer Science and Engineering

CS 2302/CS 52/10144 CS 503 — COMPUTER NETWORKS

(Common to Information Technology)

(Regulation 2008/2010)

(Common to PTCS 2302 – Computer Networks for B.E. (Part-Time) Fourth Semester
CSE – Regulation 2009 and 10144 CS 503 – Data Communication and Computer
Networks for B.E. (Part-Time) Fifth Semester CSE – Regulation 2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is meant by framing?
2. Define hamming distance.
3. Differentiate persistent and non-persistent CSMA.
4. State the uses of valid transmission timer.
5. Write down any two differences between circuit switching and packet switching.
6. Define BGP.
7. Differentiate UDP and TCP.
8. What is QOS?
9. State the difference between SMTP and MIME.
10. List down the key lengths supported by PGP.

PART B — (5 × 16 = 80 marks)

11. (a) Discuss the issues in the data link layer. (16)

Or

(b) Explain in detail the error-detecting codes. (16)

12. (a) Explain and differentiate FDDI and Ethernet. (16)

Or

(b) Write short notes on :

(i) Transparent bridges. (8)

(ii) MACA and MACAW. (8)

13. (a) (i) Differentiate ARP and RARP. (8)

(ii) Explain OSPF in detail. (8)

Or

(b) (i) What is Internet multicasting? Explain in detail. (8)

(ii) Show the IPv6 header details and explain them. (8)

14. (a) Explain the following :

(i) TCP header (8)

(ii) Adaptive flow control. (8)

Or

(b) How is congestion controlled? Explain in detail the TCP congestion control. (16)

15. (a) Write notes on URLs. (16)

Or

(b) (i) Discuss the advantages of DNS. (8)

(ii) Explain Telnet in detail. (8)