

# Question Paper Code : 71395

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2015.

Sixth Semester

Electrical and Electronics Engineering

CS 2363/CS 65/10144 CS 503 — COMPUTER NETWORKS

(Regulation 2008/2010)

(Common to PTCS 2363 – Computer Networks for B.E. (Part-Time) Fifth Semester  
Electrical and Electronics Engineering – Regulation 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define the term Ethernet. Mention its types.
2. What is the purpose of second Ring in FDDI protocol?
3. Differentiate between ARP and RARP.
4. What is ICMP? State its uses.
5. Give the Format for UDP Datagram and give the meaning of each field.
6. Define Leaky bucket Algorithm.
7. Write a short note on Firewalls.
8. What is PGP? What is its use?
9. Why DNS is necessary? State its significance.
10. What is SNMP? How it is used?

PART B — (5 × 16 = 80 marks)

11. (a) Write short notes on:
  - (i) CRC Error detection with example
  - (ii) FDDI

(8+8)

Or

(i) Switched network.

(ii) Framing.

(8+8)

12. (a) Explain Link state Routing with Routing Table and Routing Module with examples: (16)

Or

(b) Explain the Following

(i) Subnetting. (8)

(ii) Dynamic Host Configuration Protocol. (8)

13. (a) (i) Explain the steps used to calculate checksum in UDP. (8)

(ii) Explain four Hand shaking signals to terminate TCP Connection. (8)

Or

(b) (i) What is a Silly Window Syndrome? How it is avoided? (8)

(ii) Explain about TCP Congestion control and how it is avoided. (8)

14. (a) Explain about Data Compression techniques along with examples and Types. (16)

Or

(b) Explain the following with diagrams

(i) SSH Protocol. (8)

(ii) IP security. (8)

15. (a) Explain the following related with FTP

(i) Connections and Communications. (8)

(ii) Commands. (8)

Or

- (b) Explain about HTTP with Messages and Headers. (16)