

Sixth Semester

Electrical and Electronics Engineering

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

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Give the basic building blocks of network.
2. What is FDDI?
3. What is internetworking?
4. What is IPV6?
5. Give the functions of ARP.
6. Define congestion.
7. Define cryptography.
8. What is PGP?
9. What is HTTP?
10. What are overlay networks?

11. (a) (i) Discuss about the architecture of computer network with sketches. (8)
 (ii) Explain the IEEE 802.3 standard. (8)

Or

- (b) Explain the different approaches of Framing and Encoding in detail. (16)

12. (a) (i) Explain in detail about Internet control message protocol. (8)
 (ii) What is the purpose of routing? Explain flooding algorithm for routing the packets in detail. (8)

Or

- (b) Explain in detail the dynamic host configuration protocol. (16)

13. (a) (i) Explain the User Datagram Protocol (UDP) in detail. (8)
 (ii) What is flow control? Explain its methodology and techniques. (8)

Or

- (b) Explain TCP congestion control technique. (16)

14. (a) (i) Write a brief note on JPEG standards. (8)
 (ii) Explain in detail the MPEG standards and its significance. (8)

Or

- (b) (i) What is IP security? Explain the functions and working of IP security with suitable diagram. (8)
 (ii) What is firewall? Describe briefly the functional operation of firewall in Networking. (8)

15. (a) (i) Discuss about the Domain Name Systems (DNS) in computer networking. (8)
 (ii) Write short note on email services. (8)

Or

- (b) (i) Explain the importance of SNMP with its structure and format. (12)
 (ii) Describe briefly the structure, functions and features of File Transfer Protocol. (4)