

B.E./B.Tech. DEGREE EXAMINATION NOVEMBER/DECEMBER 2011.

Sixth Semester

Electrical and Electronics Engineering

CS 2363 — COMPUTER NETWORKS

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define a computer network.
2. What is FDDI?
3. What is internet working?
4. What is IPV6?
5. What is queuing?
6. Define congestion.
7. Define cryptography.
8. What is PGP.
9. What is HTTP?
10. List multimedia applications.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Describe network architecture in detail. (8)

(ii) What is Ethernet? Explain in detail. (8)

Or

(b) (i) What is error detection? Explain with examples. (8)

(ii) Write a note on bridges. (8)

12. (a) (i) Explain in detail about internet control message protocol. (8)

(ii) Describe any one routing algorithm. (8)

Or

(b) (i) What is dynamic host configuration protocol? Explain in detail. (8)

(ii) Write a note on addressing. (8)

13. (a) (i) Explain the user datagram protocol (UDP) in detail. (8)

(ii) What is flow control? Explain in detail. (8)

Or

(b) (i) Explain in detail the transmission control protocol. (8)

(ii) Write a note on congestion avoidance mechanisms. (8)

14. (a) (i) Write a note on JPEG, MPEG and MP3. (8)

(ii) What is IP security? Explain in detail. (8)

Or

(b) (i) Explain fire walls in detail. (8)

(ii) Explain the basic principles of authentication. (8)

15. (a) (i) Describe domain name system in detail. (8)

(ii) Write a note on e-mail. (8)

Or

(b) (i) Explain simple network management protocol in detail. (8)

(ii) Describe in detail the file transfer protocol (FTP). (8)