

D 13029

(Pages : 2)

Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2006

Computer Science

CS. 301. COMPUTER NETWORKS

Time : Three Hours

Maximum : 60 Marks

Part A

*Answer any five questions.
Each question carries 3 marks.*

1. Differentiate between Packet switching and Circuit switching.
2. What is Simplex protocol ?
3. State the advantages and disadvantages of token ring over ethernet.
4. What are gateways ?
5. Mention the services provided by the session layer.
6. Distinguish between p-persistent and non-persistent CSMA.
7. State the applications of telnet.

(5 x 3 15 marks)

Part B

*Answer any **three** questions.
Each question carries 15 marks.*

8. (a) Explain CRC method for error detection with an example. (10 marks)
(b) Explain sliding window protocol. (5 marks)
9. Write short notes on:
(a) Principle of optimality. (5 marks)
(b) Slotted ALOHA and pure ALOHA. (5 marks)
(c) Virtual circuits and datagrams. (5 marks)
10. Explain briefly about :
(a) PCM. (5 marks)
(b) Network topologies. (5 marks)
(c) Encryption and decryption methods. (5 marks)

Turn over

11. Describe briefly about :

- (a) DNS server.
- (b) SMTP.
- (c) Congestion control.
- (d) TCP/IP protocol.
- (e) Firewalls.

(3 marks)

(3 marks)

(3

(3 marks

(3 marks

[3 x 15 = 45 marks]

I

1500