



SX-7813

Seat No. _____

M. C. A. (Sem. - III) Examination

April / May – 2006

302 - Computer Communication Networks

(New Syllabus)

Time : 3 Hours]

[Total Marks : 75

Q1. Attempt any 3 (Three) from the following

- (a) Explain the following computing models. [5]
(1) Centralized Computing (2) Collaborative Computing
- (b) Explain different File Services. [5]
- (c) Write a short note on Twisted Pair Cable. [5]
- (d) Explain Wireless media with Satellite Microwave [5]

Q2. Attempt any 3 (Three) from the following

- (a) Explain Frequency, Phase, Amplitude [5]
- (b) Explain the following Multiplexing techniques [5]
(1) Time Division Multiplexing (2) Frequency Division Multiplexing
- (c) Write a short note on HUB. Also explain Passive, Active and Intelligent Hub. [5]
- (d) Write a short note on Link State Routing. [5]

Q3. Attempt any 3 (Three) from the following

- (a) Explain Transport Layer and Network Layer of OSI reference Model [5]
- (b) Explain The Terms Token Passing, Polling, Contention [5]
- (c) Explain STAR topology with its advantages and drawbacks. [5]
- (d) Write a short note on ANSI fiber distributed data interface. [5]

Q4. Attempt any 3 (Three) from the following

- (a) Explain Packet switching technique and its advantages. [5]
- (b) Explain TCP/IP Protocol suite with its all layers. [5]
- (c) Explain IP address structure with Class A, B, C. [5]
- (d) Write a short note on any **ONE** TCP/IP operation. [5]
(1) Encapsulation- De capsulation (2) Multiplexing – De-Multiplexing

Q5. Attempt any 3 (Three) from the following

- (a) Write a short note on Network Operating System. [5]
- (b) Write a short note on ATM [5]
- (c) Write a short note on HDLC protocol [5]
- (d) Write a short note on Public Switching Telephone Network [5]

SX-7813]

[300]