June 2006

Maximum Marks: 100

Subject Code-4259

M. Sc. EXAMINATION

(Third/Fourth Semester)

COMPUTER SCIENCE

MS-16

Computer Network

	Note	:	Attempt	any	Five	questions.	All	questions
			carry equ	ıal r	narks.	ne IPPP		

Time: 3 Hours

- 1. (a) What are the reasons for using Layered Protocols?
 - (b) What are the main differences between TCP and UDP?
 - (c) What are the differences between connectionless and connection-oriented communication?

P.T.O.

	(i) Half Duplex Transmission methods					
	(ii) Full Duplex method.					
4:	Discuss the frame format for the given data					
	link protocols : 20					
	(a) HDLC					
	(b) SDLC.					
5.	How many types of switching techniques are					
161	available for Packet Transmission ? Explain					
	each.					
6.	Explain the IEEE LAN standard 802.5 (token					
	ring). How the token passing mechanism is					
	managed for the proper functioning of IEEE					
	802.5 ?					
7.	(a) Discuss one routing algorithm for routing					
	of packets in computer networks. 10					
	(b) Explain the services provided by ISDN. 10					
J-4	C est 2 / humanos					

Discuss about the TDMA and explain the working of TDMA with suitable example. 20

Discuss the ATM reference model.

(b) Explain the following:

10

10

(a)

- 8. Write short notes on any two of the following:
 - (a) Shannon Hartlay Theorem
 - (b) Binary Synchronous Control (BSC)
 - (c) X-25 Network. 10,10