Dallar		
MOH INO.	Witness and	179
	*************	Jack 1

Total Pages: 03

BT-6/J-22

46166

COMPUTER NETWORKS PC-CS-304E

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit.

To spandable of the torive of Unit, I

- (a) What are the advantages that packet switching have over circuit switching?
 - (b) Explain TDM, FDM, WDM, TDMA and FDMA along with unique advantages and features of each. bod votasy solitanto pies

Explain the differences in

- (a) Consider a 3 kHz channel with 8-level signaling. Obtain and compare bit rate to channel capacity at 20 dB SNR.
 - Explain different types of transmission media and (b) their advantages.

William and the second was a Munit II de tour and the second

In a LAN, which MAC protocol has a higher 3. (a) efficiency: ALOHA or CSMA-CD? Justify your answer.

(b)	Why framing is required? Explain any two framing
3.18-12	methods with example.
(a)	Explain, how error is detected and corrected in digital transmission?
(b)	
4	1-persistent and non-persistent CSMA-CD.
	of the Actionship the Unit III
(a)	What are private IP address ranges? Why private
eri sub	IP addresses are needed? What is the advantage of subnetting?
(b)	_ // /
	Describe the working of DHCP and ARP. 6
into A	Describe various uses of ICMP.
(b)	Explain the differences between distance vector and link state routing
	Cathing.
Marie en	Unit IV
(a)	TCP uses a three-way by
6.	TCP uses a three-way handshake for connection setup. Explain, why TCP 1
	- 1111 IUP doc-
	VALIA IIInot
(h)	어머니는 남자들이 그들이 아이들이 살아 아이들이 아이들에게 되었다면 나를 가게 들었다면 하는데 그렇게 되는데 그렇게 되었다면 하는데 그렇게 되었다면 하는데 나를 살아 하는데 그렇다는데 그렇다는데 그렇다는데 그렇다는데 그렇다는데 그렇다면 그렇다면 살아보다면 살
U	Explain the importance of user authentication,
	integrity and crytography. 6 user authentication,
66	
	(a) (b) (a) (b) (a) (b)

- (a) Explain the working of SNMP. Describe any three message types out of several available in SNMP. 9
- (b) What is the difference between leaky bucket and token bucket algorithms? Discuss the two algorithms.