Sl.No. 0273

Total No. of Pages: 2

P.T.O.

## VI Semester B.Sc. Examination, April/May - 2018 (Semester Scheme) (2013-14 Batch on Wards) (New) COMPUTER SCIENCE Computer Networks (Paper - 8)

	ne : 3 tructi	on: Answer any two full questions from Part A,B,C, and Part- compulsory.	
		Part - A	
1	a)	Explain components involved in data communication.	[5]
	b)	Explain different types of computer networks.	[5]
2.	a)	Explain fiber optic cable in detail.	[6]
	b)	Explain any two analog to analog conversion.	[4]
		) - Explain Dijkstra's shortest path kaonsthm with a sufrable example	
3.	a)	Define topology? Discuss any two types of topologies.	[5]
	b)	Differentiate manchester coding with differential manchester.	[5]
	(4=2)	er any five questions: B - traq	
4	a)	Explain the services of physical layer and network layer.	[6]
	b)	Differentiate between dynamic and static IP addressing.	
		Differentiate logical addressing with physical addressing.	3. 1
5	a)	Write a note on:	[6]
		i) SMTP ii) ALOHA	
	b)	Write the applications of Gateway.	[4]

20	50	7 1111111	M-15		
6	a)	Explain IPV4 Protocol	[4]		
	b)	Explain TCP/IP suite.	[6]		
		ster Scheme) (2013-14 Batch on Wards) (New			
•		Part - C			
7.08	a)	Explain the concept of packet switching.	[5]		
ei i	b)	Explain leaky Bucket algorithm.	(5) in (5)		
8	a)	Define	[10]		
		i) Single bit error			
		ii) Burst error			
		iii) Redundancy			
		iv) Checksum			
		v) Hamming distance			
9	a)	Explain Dijkstra's shortest path algorithm with a suitable exa	mple. [7]		
	b)	Write a note on routing table.	[0]		
		fierentiste manchester coding (sh. Merential manchester			
		Part - D			
Ans	wer	any five questions:	[5×4=20]		
10.	Writ	ite a note on bit synchronization.			
11.	Exp	olain Radio wave Transmission system.			
12.	Explain any two transmission modes.				
13.	Differentiate logical addressing with physical addressing.				
14.	Write a note on FTP and ARP.				
15.	Exp	plain any one error correcting code. With an example.			