CS SCHEME

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Sixth Semester B.E. Degree Examination, June/July 2018

		Sixth Semester B.E. Degree Examination, June/July 2	018
		Computer Communication Networks	010
200			
Time: 3 hrs.		Maula 00	
Note: Answer any FIVE full and		ax. Marks: 80	
		Note: Answer any FIVE full questions, choosing one full question from each	h module.
1	0	Module-1	
1	a b	and significance of layers in 10 P/IP protocol quite with most 1:	1. (08 Marks)
	c	Thastate with all example byte stuffing and hit stuffing	(04 Marks)
		Explain briefly four physical topologies of a network.	(04 Marks)
		OP	
2	a.		
	b.	Describe the operation of STOP and WAIT protocol also FSM for ST protocol.	(08 Marks)
		protocol.	
		/G) ~	(08 Marks)
2	5	Module-2	CVD.
<u>د</u>	a.	Explain the three strategies used in CSMA/CA collision avoidance.	(06 Marks)
12	٠)	A pure ALOHA network transmits 200 hit frames on a shared at the same	
200		the throughput if the system produces (i) 1000 frames per sec (ii) 500 (iii) 250 frames per sec.	frames per sec
	c.	July 1	(04 Marks)
		and the companies of th	(06 Marks)
		OR	
4	a.	Describe persistence methods in CSMA with flow diagrams	(0.6 N/L - 1 -)
	b.	write short notes on 10 Base 5 Ethernet and 10 Base 2 Ethernet	(06 Marks) (06 Marks)
	C.	Describe Polling in controlled access method.	(04 Marks)
			(0.11144143)
5	a.	Explain Hidden station problem in wireless networks.	
	b.	Describe Spanning Tree Algorithm with an example.	(05 Marks)
	c.	Explain Datagram approach in connectionless service to route the packet.	(06 Marks)
		The packet.	(05 Marks)
,		OR	
0	a.	With a neat diagram describe the two kinds of services defined by wireless are	hitecture
	b.	Explain with a part diagram VI	(05 Marks)
	c.	Explain with a neat diagram VLAN, membership and configuration of VLAN. Explain a simple implementation of Network	(06 Marks)
		Explain a simple implementation of Network Address Translation (NAT translation with a neat diagram.	
		C. Santa	(05 Marks)
_		Module-4	
7	a.	Explain IPV4 Datagram format	(08 Marks)
	b.	Explain with an example distance vector routing algorithm.	(08 Marks)

(08 Marks)

ple distance vector routing algorithm.

Explain with a neat diagram the three phases in Mobile host communication. Explain with an example link state routing and also apply Dijksthra algorithm to find least cost path tree. (08 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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Module-5

9 a. Explain why the send window size for Go-Back N must be less than 2^m.
b. Explain sending and receiving buffers in TCP.
c. With a neat diagram explain TCP segment format.
(05 Marks)
(05 Marks)
(06 Marks)

OR

a. Explain why the size of the send and receiver window in selective repeat can be atmost one half of 2^m. (05 Marks)

b. Discuss the general services provided by UDP. (05 Marks)

c. Explain with a neat diagram connection establishment using three way handshaking in TCP. (06 Marks)

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