GBCS SCHEME



15EC64

USN

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

Time: 3 hrs.

Max. Marks: 80

Tim	e: 3	hrs.	arks. oo
Note: Answer any FIVE full questions, choosing one full question from each module.			
Module-1			
1	0	Explain the significance of layers in TCP/IP protocol suite with neat diagram.	(08 Marks)
1		Explain the significance of tayers in 101711 protections	(04 Marks)
	b.	Illustrate with an example byte stuffing and bit stuffing.	(04 Marks)
	C.	Explain briefly four physical topologies of a network.	(0.1.1.1.1.)
OR			
_			(08 Marks)
2	a.	Explain ARP operation and ARP packet format with a neat diagram.	
	b.	Describe the operation of STOP and WAIT protocol also FSM for STOP	(08 Marks)
		protocol.	(00 Marks)
			Chall
	1	Module-2	\$ (C)
3	a.\\	Explain the three strategies used in CSMA/CA collision avoidance.	(06 Marks)
1	B.	A pure ALOHA network transmits 200 bit frames on a shared channel of 200 kb	ps. what is
SF	7	the throughput if the system produces (i) 1000 frames per sec (ii) 500 frames	ges per sec
370		(iii) 250 frames per sec.	(04 Marks)
/	c.	With a neat diagram explain Ethernet frame format.	(06 Marks)
		OR	
4	a.	Describe persistence methods in CSMA with flow diagram.	(06 Marks)
4	b.	Write short notes on 10 Base 5 Ethernet and 10 Base 2 Ethernet	(06 Marks)
	c.	Describe Polling in controlled access method.	(04 Marks)
	C.	Describe Forming in controlled access and and	
Module-3			
=		Explain Hidden station problem in wireless networks	(05 Marks)
5	a.	Describe Spanning Tree Algorithm with an example.	(06 Marks)
	b.	Explain Datagram approach in connectionless service to route the packet.	(05 Marks)
	C.	Explain Datagram approach in connectionless so, vice to route the passess	
		OR	
_		With a neat diagram describe the two kinds of services defined by wireless archit	ecture.
6	a.	With a near diagram describe the two sales of services defined by	(05 Marks)
	h	Explain with a neat diagram VLAN, membership and configuration of VLAN.	(06 Marks)
	b.	Explain a simple implementation of Network Address Translation (NAT)	and address
	c.	Explain a simple implementation of Tremon	(05 Marks)

translation with a neat diagram.

(08 Marks)

(05 Marks)

a. Explain IPV4 Datagram format.b. Explain with an example distance vector routing algorithm.

(08 Marks)

OR

Module-4

8 a. Explain with a neat diagram the three phases in Mobile host communication. (08 Marks)
b. 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.



15EC64

(06 Marks)

Explain why the send window size for Go Back N must be less than 2^m. (05 Marks)

Explain sending and receiving buffers in CP. (05 Marks)

With a neat diagram explain TCP segment format.

Explain why the size of the send and receiver window in selective repeat can be atmost one 10 half of 2^m.

OR

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

Explain with a near diagram connection establishment using three way handshaking in TCP. with Stalling Stallin THE REAL PROPERTY OF THE PARTY (06 Marks)