Exam Seat No:__

Branch: B.Tech(CE,IT)

(14)

C.U.SHAH UNIVERSITY Winter Examination-2015

Subject Name: Computer Networks

Subject Code:	4TE05CNW1
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Semester: 5 Date:02/12/2015 Time:2:30 To 5:30 Marks: 70 Instructions: (1) Use of Programmable calculator & any other electronic instrument is prohibited. (2) Instructions written on main answer book are strictly to be obeyed. (3) Draw neat diagrams and figures (if necessary) at right places. (4) Assume suitable data if needed. 0-1 Attempt the following questions :(One mark for each) Segmentation is done a) (A) Transport Layer (B) Network Layer (C) Application Layer (D) Data Link Layer Which of the following devices translates dissimilar network protocols? b) (B) Repeater (A)Router (D) Gateway (C) Switch Which is the device belongs to the OSI physical layer? **c**) (A) Switch (B) Repeater (C) Gateway (D) Router What is the name of the fixed route established at the time of initial connection **d**) setup in ATM networks? (A) connection network (B) data route (C) virtual circuit (D) ring Which error detection method uses ones compliment arithmetic? **e**) (A) two-dimetional parity check (B) checksum (D) CRC (C) simple parity ckeck What is the netmask of the gateway interface in a sub-C network where only f) 14 hosts may exist and IP address of one of the hosts is 193.145.122.76? (B) 193.145.122.15 (A) 255.255.255.224 (C) 255.255.255.0 **(D)** 255.255.255.240

g) Which of the following network address classes id reserved for multicast

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	addressed only?		
	(A) class A (C) class D	(B) class E (D) class C	
h)	Name server is a?		
	(A) host with full of names	(B) short of an HTTP-server	
	(C) network protocol	(D) program answering name queries	
i)	if we run N simultaneous stop-n-wait ARQ processors parallels		
	over the transmission chann		
	(A) Go-back N protocol	(B) SR Protocol	
	(C) Stop-n-wait protocol	(D)None of these	
j)	How many network bits does125.140.128.16 have?		
	(A) 8	(B) 32	
	(C) 16	(D) 24	
k)) What is the maximum length of Cat-5 cable in a fast ethernet netwo		
	(A) 180 m	(B) 200 m	
	(C) 100 m	(D) 1200 m	
l)	What is the maximum size of the data that application layer can pass on to		
	TCP layer below?		
	(A)Any Size	(B)216 byte size of the TCP header	
	(C) 512Bytes	(D)1500 byte	
m)	What is the port number for (Simple Mail Transfer Protocol) SMTP?		
	(A) 20	(B) 25	
	(C) 23	(D) 24	
n)	Which packet is a special pa	acket that can be sent from a router to the sender	

when the router encounters congestion? (A)Choke (B)data (D) None of these (C)Control

Attempt any four questions from Q-2 to Q-8

Q-2 Attempt all questions

- Explain Guided Transmission Media Such As Twisted Pair, Coaxial Cable, and 07 a) Fiber Optics. 07
- Explain LAN, MAN and WAN. b)
- Q-3 Attempt all questions



	a)	Deference between OSI and TCP / IP reference model.	07	
	b)	Write a short note on DNS.	07	
Q-4	Attempt all questions			
	a)	What are the ways to address the framing problem?	07	
	b)	Explain CRC with example.	07	
Q-5	Attem	pt all questions		
	a)	The Code 11110101101 Was Received. Using the Hamming Encoding Algorithm What is the Original Code Sent?	07	
	b)	Compare Stop and Wait ARQ scheme with sliding window ARQ scheme.	07	
Q-6 Attempt all questions		pt all questions		
	a)	Write a short note on "ALOHA".	07	
	b)	Explain Virtual LAN with suitable Example.	07	
Q-7	Attem	pt all questions		
	a)	Compare IP4 Address and IP6 Address.	07	
	b)	Write a short note on Leaky Bucket Algorithm.	07	
Q-8	Attempt all questions			
	a)	Explain Link state routing and discuss its advantages over distance vector Routing.	07	
	b)	Explain three handshake process with suitable diagram.	07	

