[54]

No. of Printed Pages: 2

00

SARDAR PATEL UNIVERSITY

M.Sc (Sem - II) ELECTRONICS & COMMUNICATION

Subject :- Computer Networks Subject code :- PS02EELC02

Date & Day :- 28-04-2015, Tuesday

Total Marks 70

Q-1	Multiple Choice Question			
1	Which topology requires a central controller or hub?			
1	a) Star	c) Bus		
	b) Mesh	d) Ring		
2	Transmission media is usually car	tegorized asdatarminate		
	a) guided or unguided	c) determinate or undeterminate		
	b) fix or unfix	d) metallic or nonmetallic		
3	In fiber optics the signal source is	c) Infra wave		
	a) Light wave	d) None of above		
	b) Radio wave Which error detection method use			
4	a) Parity check	c) Two dimension parity check		
	b) CRC	d) Check sum		
5	The most primitive random access			
3	a) ALOHA	c) Token passing		
. 21	b) CSMA	d) Channelisation		
6	A telephone network is an examp	ole of		
	a) Packet switched	c) Circuit switched		
	b) Message switched	d) All of above		
7	Which of the following is connected	cting device?		
	a) Bridge	c) Hub		
	b) Repeater	d) All of above		
8	The traffic shaping men	thod gives a host credit for it's idle time. c) Bursty bucket		
	a) Token bucket	d) Traffic bucket		
	b) Leaky bucket	d) Harrie bucket	(14)	
	· G1 · · · (A · · · · 7)	이기는 보이 되었습니다. 보고 12 개 시작하다.		
Q-2	Answer in Short (Any 7)			
1	Define Network	1:-0		
2	How does guided media is differ from unguided media?			
3	Why is the co-axial cable is superior to Twisted pair cable?			
4	How does the Automatic Repeat Request (ARQ) corrects the error?			
5	Define Multiple access. List out	the different multiple access.		
		그렇게 하고 하다라 대회병학을 되는 말이다.		
6	Discuss the interconnecting device Gateway.			
7	What do you mean by congestion?			
8	Give the advantages and disadvantages of cryptography.			
0	Compare and contrast between WWW and HTTP.			

Q-3	(a)	Give the classification of Network. What is Topology, Discuss in detail the concept Topology with it's merits and demerits.	
Q-3	(b)	What is Transmission media? Discuss the different types of transmission media. OR	(6)
Q-3	(b)	What do you mean by OSI reference model? Describe the each layer of the OSI reference model in detail.	(6)
Q-4	(a)	Discuss the selective repeat ARQ sliding window at both the sender and the receiver side.	(6)
Q-4	(b)	Discuss the carrier sense multiple access protocol with persistent strategies.	(6)
		OR	
Q-4	(b)	Explain in brief the mechanism of Go back n ARQ with figure.	(6)
Q-5	(a)	What is Switching? Explain the concept packet switching in brief.	(6)
Q-5	(b)	Explain the following internetworking devices: 1. Firewall 2. connectionless internet OR	(6)
Q-5	(b)	Write a short note on : Leaky Bucket	(6)
Q-6	(a)	What is Cryptography? Explain the Secret key and the public key cryptography with suitable example.	(6)
Q-6	(b)	Generate cipher text for the plain text "COMMUNICATION" using RSA algorithm. Also decrypt the cipher text and obtain the original plain text. (Take p=5 & q=7) OR	(6)
Q-6	(b)	Write a note on following 1. E-mail 2. MIME	(6)

-Best of Luck -