Total No	o. of Questions : 10] SEAT No. :			
P100	[5871]-602 [Total No. of Pages : 2			
	B.E. (E & T.C.)			
	COMPUTER NETWORK AND SECURITY			
(2015 Pattern) (Semester - I)				
Time: 2	½ Hours] [Max. Marks : 70			
Instructions to the candidates:				
1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10.			
2)	Neat diagrams must be drawn wherever necessary.			
3)	Figures to the right side indicate full marks.			
<i>4)</i>	Use of Calculator is allowed. Assume suitable data if necessary.			
5)	Assume suitable data if necessary.			
Q1) a)	Draw and explain the TCP/IP Protocol suite. [6]			
b)	Compare Packet switching vs. Circuit Switching. [4]			
,				
	OR O			
Q2) a)	A slotted ALOHA network transmits 200 bit frames using a shared channel			
	with a 200kbps Bandwidth. Find the throughput if the system produces			
	i) 1000 frames per second [6]			
	ii) 500 frames per second			
	iii) 250 frames per second			
b)				
b)	Compare if v4 vs. 1900			
	9°			
Q3) a)	What is routing? Explain link state routing protocol [6]			
b)	List and explain different types of addresses used in IPv4. [4]			
,				
	OR S			
O ()				
Q4) a)	Draw and explain the format of IPv6 datagram. [6]			
b)	Explain the concept of unicast and multicast routing protocol. [4]			
	8°. V			

Q 5)	a)	Explain the connection establishment using three way handshakin TCP Protocol.	ng in [8]
	b)	Compare connection oriented is connectionless services of translayer.	sport [5]
	c)	Explain the process to process delivery.	[5]
		OR	
Q6)	a)	Draw and explain the TCP header and explain the function of each he	
	b)	Compare UDP vs. TCP.	[8]
	c)	Explain the different features of SCTP.	[5] [5]
	C)	Explain the different reductes of SC 11.	[S]
Q 7)	a)	Explain the Telnet and FTP with suitable diagram.	[8]
	b)	Explain the Architecture of World wide web (WWW).	[8]
		OR OR	
Q8)	a)	Explain the various functions of Network management system.	[8]
	b)	Write a short note on electronic mail	[8]
Q9)	a)	What is symmetric key cryptography? Explain Data encryption stand	rOn
	b)	Explain RSA Algorithm OR	[8]
		OR OR	
Q10) (a)	Explain confidentiality with Symmetric key cryptography and Asymm key cryptography.	netric [8]
	b)	Explain the various security features offered by Pretty Good Pri (PGP)	vacy [8]
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