Total No. of Questions: 8]	90	SEAT No. :
P-7540		[Total No. of Pages : 2
	[6180]-48	

## T.E. (Computer Engineering) COMPUTER NETWORKS AND SECURITY

(2019 Pattern) (Semester - I) (310244)

Time	$2:2^{j}$	½ Hours] [Max. Mar	ks: 70
Instr	ucti	ions to the candidates:	
	1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q5 or Q6, Q7or Q8.	
	<i>2</i> )	Neat diagrams must be drawn wherever necessary.	
	<i>3</i> )	Figures to the right side indicate full marks.	
	<i>4</i> )	Assume suitable data if necessary.	
Q1)	a)	Give short note on:	[6]
		i) ARP	
		ii) RARP	
	b)	Explain Distance vector routing.	[6]
	c)	Differentiate between Crcuit Switching, Message Switching and	Packet
		Switching.	[6]
		OR	
Q2)	a)	Give short note on:	[6]
		i) ICMP	\$
		ii) IGMP	3
	b)	Explain Link state routing.	[6]
	c)	192.168.5.51 / 26 for given address find out the i. subnet i	mask?
		ii. what is first ip address for given series?, iii what is last ip a	
	7	for given series?	[6]
•			
<i>Q3</i> )	a)	Draw and explain TCP header format.  List and explain transport layer services.	[6]
	b)	List and explain transport layer services.	[6]
	c)	e2 a7 00 0D 00 20 74 9e 0e ff 00 00 00 01 00 00 00 using this	s UDP
	,	hexadecimal dump find out in decimal numbers i. Source po	
		ii. Destination port no., iii. Total length of user datagram.	[6]

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		OR 9	
<b>Q4</b> )	a)	Draw and explain UDP header format.	[6]
	b)	What is socket? What are different types of socket? Explain so functions used in connection oriented services with diagram.	[6]
	c)	Explain SCTP protocol in detail.	[6]
<b>Q</b> 5)	a)	What is DNS? Explain DNS working.	[9]
	b)	Write short notes on FTP and TELNET.  OR	[8]
<b>Q6</b> )	a)	What is SNMP? Explain SNMP working.	[9]
	b)	What is HTTP? Explain HTTP request and feply messages.	[8]
	7	S. S	
<b>Q</b> 7)	a)	Draw and explain ITU-T X.800 Security Architecture for OSI.	[6]
	b)	Give short note on HTTPS.	[6]
	c)	Give short note on IDS	[5]
<b>Q</b> 8)	a)	OR  Differentiate between Symmetric and Asymmetric Key Cryptogra	pby.
~ .			[6]
	b)	Explain SSL in detail.	[6]
	c)	Give short note on Firewalls.	[5]
0			
		6.23	
		Explain SSL in detail.  Give short note on Firewalls.	
[618	0]-4	<b>2</b> ×	