Total	No.	of Questions : 8] SEAT No. :		
P27	' 1	[Total No. of Pages : 2		
		[6003]-349		
T.E. (Computer Engineering) (Semester - I)				
COMPUTER NETWORKS AND SECURITY				
(310244) (2019 Pattern)				
Time	2:21/2	[Max. Marks: 70		
Instr	uctio	ons to the candidates:		
	<i>1</i>)	Neat diagrams must be drawn whenever necessary.		
	2)	Figures to the right side indicate full marks.		
	3)	Assume Suitable data if necessary.		
	<i>4</i>)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.		
Q 1)	a)	Differentiate between Circuit Switching and Packet Switching. [6]		
	b) ,	Give short note on RIP. [6]		
	c)	192.168.5.71 /26 for given address find out the [6]		
		i) subnet mask?		
		ii) what is first ip address for given series?		
		iii) what is last ip address for given series?		
		OR		
Q 2)	a)	Draw and explain Header format of IPV6.		
	b)	Give short note on BGP [6]		
	c)	List and explain functions of Network Layer. [6]		
Q 3)	a)	What is socket? What are different types of socket? Explain socket		
		functions used in connection less services with diagram. [6]		
	b)	Explain TCP congestion control in transport layer? [6]		
	c)	What is Quality of Service? Explain any two methods to improve QoS?[6]		
		OD b		

Q4) a)	Explain RTP protocol in detail.	[6]		
b)	List and explain transport layer services.	[6]		
c)	06 32 00 0D 001C E2 17 using this UDP hexadecimal dump find o	out in		
	decimal numbers	[6]		
	i) Source port no.			
	ii) Destination port no.			
	iii) Total length of user datagram.			
	Service of the servic			
Q5) a)	What is HTTP? Explain HTTP request and reply messages.	[9]		
b)	Write short notes on SMTP and MIME.	[8]		
,	OR OR			
Q6) a)	What is DHCP? Explain DHCP working with client state diagram.	[9]		
~ , ,				
b)	Write short notes on POP3 and Webmail.	[8]		
Q7) a)	Differentiate between Symmetric and Asymmetric Key Cryptograph	y.[6]		
b)	Explain model for network security.	.[6]		
c)	Give short note on Security Policy and mechanisms.	[5]		
	OR OR			
Q8) a)	Explain Types of Network Attacks.	[6]		
b)	Give short note on Security Policy and mechanisms. OR Explain Types of Network Attacks. Explain IPSec in detail. Give short note on S/MIME.	[6]		
c)	Give short note on S/MIME.	[5]		
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