Total No.	. of Questions : 8] SEA	AT No. :	
P271		[Total No. of	Pages: 2
	[6003]-349		
	T.E. (Computer Engineering) (Semest	ter - I)	
	COMPUTER NETWORKS AND SEC	URITY	
	(310244) (2019 Pattern)		
<i>Time</i> : 2 <sup>1</sup>	½ Hours]	[Max. M	arks: 70
Instructi	ions to the candidates:		
1)	Neat diagrams must be drawn whenever necessary.		
2)	Figures to the right side indicate full marks.		
3)	Assume Suitable data if necessary.		
4)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8	8.	
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<b>Q1</b> ) a)	Differentiate between Circuit Switching and Packe	t 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		(0
<b>Q2</b> ) a)	Draw and explain Header format of IPV6.		[6]

Give short note on BGP b)

List and explain functions of Network Layer. c)

What is socket? What are different types of socket? Explain socket **Q3**) a) functions used in connection less services with diagram. **[6]** 

Explain TCP congestion control in transport layer? b)

**[6]** 

What is Quality of Service? Explain any two methods to improve QoS?[6] c)

OR

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