Total No.	. of Questions : 6]	SEAT No. :			
P542		[Total No. of Pages : 2			
APR - 18/TE/Insem 145					
T.E. (Information Technology)					
COMPUTER NETWORK TECHNOLOGY					
(2015 Course) (Semester - II) (314450)					
Time: 1 H	Hour]	[Max. Marks: 30			
Instructio	ons to the candidates:				
1)	Answers Q1 or Q2, Q3 or Q4, Q5 or Q6.				
<i>2)</i>	Neat diagrams must be drawn wherever necessary.	0,			
ŕ	Figures to the right side indicate full marks.	No.			
4)	Assume suitable data, if necessary.				
<b>Q1)</b> a)	Explain distance vector routing algorithms with	th example. [6]			
b)	Compare between RIPv1 and RIPv2.	[4]			
OR					
<b>Q2)</b> a)	Consider a Class - C network 192.168.14.0 w	ith default subnet mask.[6]			
	How many actual hosts can be connected in	that network?			
	Divide that network into 8 equal subnets?				
	What is the new subnet mask?				
	What is the starting address of the 6 <sup>th</sup> Subner	ubnet?			
	What is the last address of the 6 <sup>th</sup> Subnet?				
	How many hosts can be connected in each s	ubnet?			
b)	Compare between IPv4 and IPv6.	[4]			
		200			
<b>Q3)</b> a)	What is silly window syndrome? How to ove	ercome it? [5]			
b)	What is a Socket? Explain various socket prin interaction.	nitives used in client-server [5]			
	OR				
		P.T.O.			

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Q4)	a)	How Nagle algorithm helps in TCP transmission policy? Explain the Clark's solution to overcome the silly window syndrome. [6]		
	b)	Explain the three way handshake algorithm for TCP connect establishment.	tion [4]	
Q5)	a)	Explain how name resolution happens in DNS. Enlist all the resourceords and its functions.	arce [5]	
	b)	Explain between persistent and non-persistent HTTP Connection.	[5]	
		OR		
Q6)	a)	What is FTP? Where and when it is used? Why does it require 02 po Explain at least 04 user commands used in FTP?	orts? [6]	
	b)	Differentiate between POP3 and IMAP.	[4]	
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