Total	l No. o	of Questions : 8] SEAT No. :		
P3536		[5560] 188 [Total No. of Pages : 2		
T.E. (Computer Engineering)				
COMPUTER NETWORKS				
(2012 Course) (Semster - II)				
		Hours] [Max. Marks : 70 is to the candidates:		
1) Neat diagrams must be drawn wherever necessary.				
	2) A	Assume suitable data, if necessary.		
<i>Q1)</i>	a)	What is requirement of DNS. Explain its working in detail. [8]		
	b)	What are different DHCP messages. Explain with examples. [6]		
	c)	Draw UDP header structure; explain significance of each field in UDP		
		header. [6]		
	5	OR		
Q2)	a)	OR Explain in detail RIP protocol. [6]		
	b)	Divide the network 220.123.5.192/26 into 4 sub networks. How many		
		hosts can be connected in each network? Show their IP range, network		
		address and broadcast address. [8]		
	c)	Compare IPv6 and IPv4. Praw and explain IPv6 header format.		
Q3)	a)	Explain all versions of 802.11 standard and components. [8]		
	b)	Write short note on following (any 2) [8]		
		i) WLAN		
		ii) WAP 2.0		
		ii) SONET		
		OR OR		
Q4)	a)	Compare IPv6 and IPv4. Draw and explain IPv6 header format. Explain all versions of 802.11 standard and components. Write short note on following (any 2) i) WLAN ii) WAP 2.0 iii) SONET OR Explain WAP protocol stack. [8] Explain Hidden station and Expose station Problem? [8]		
	b)	Explain Hidden station and Expose station Problem? [8]		
		P.T.O.		

Q5) a)	Explain the Architecture diagram of Delay Tolerant Network?	[8]	
b)	What are the components of VANET? What do you mean by dec short range communication in VANET?	dicated [8]	
	OR		
Q6) a)	Draw and explain VOIP network architecture.	[8]	
b)	Explain an application of VOIP in real environment.	[8]	
Q7) a)	What is the role of client layers in optical fiber?	[8]	
b)	Write short note on (any 2)	[10]	
	i) Role of Ethernet in Optical Network		
	ii) SMPLS		
	Virtualization and its types		
S	Write short note on (any 2) i) Role of Ethernet in Optical Network ii) GMPLS iii) Virtualization and its types OR What is ATM? Explain in detail. Explain the Heterogeneous ver Communication protocol Module.		
Q8) a)	What is ATM? Explain in detail. Explain the Heterogeneous ve	hicular	
		[8]	
b)	Explain working of SDN in detail with diagram.	[10]	
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