Total No. of Questions: 8]	SEAT No.:
P1343	[Total No. of Pages : 2

[4858] - 1087

			T.E. (Computer Engineering)				
			COMPUTER NETWORKS				
(2012 Pattern)							
Time	Time: 3 Hours] [Max. Marks			: 70			
Instr	ructio	ns to	the candidates:				
	1) 2) 3) 4)	Figu Neat	e Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8. Ares to the right indicate full marks. A diagrams must be drawn wherever necessary. Area suitable data, if necessary.				
Q1)	a)	Wha	nt is DNS? Explain in brief hierarchical structure of DNS.	[6]			
	b)	Con	pare link state routing and distance vector routing.	[6]			
	c)	Exp	lain token bucket and leaky bucket algorithm with diagram.	[8]			
			OR				
Q2)	a)	Exp	lain POP3 and IMAP4.	[6]			
	b)	Exp	lain socket programming with its primitives.	[6]			
	c)	Drav	w the packet header format of OSPF and explain in detail.	[8]			
Q3)	a)		npare and explain 802.11a, 802.11b and 802.11g wireless standa respect to	rds [8]			
		i)	Bandwidth.				
		ii)	Frequency.				
		iii)	Signal to noise ratio.				
		iv)	Range.				
	b)	Drav	w and explain WAP architecture.	[8]			
			OR				

Q4)	a)	What is WAE (Wireless Application Environment)? Explain in detail	s. [8]
	b)	Write a note on:	[8]
		i) Wireless LAN.	
		ii) WML Script.	
Q5)	a)	Explain the advantage of DTN over IP network with example.	[8]
	b)	Draw and explain V1OIP network architecture.	[8]
		OR	
Q6)	a)	What is Vehicular network? What are the challenges and application vehicular network?	s of [8]
	b)	What is DTN? Explain different layers of DTN.	[8]
Q7)	Writ	te a note on (any 3):	[18]
	a)	Components of optical network.	
	b)	ATM cell format.	
	c)	GMPLS.	
	d)	SDN.	
		OR	
Q8)	a)	What is Virtualization? List advantages and disadvantages of Virtualizat	ion. [6]
	b)	Explain how packet switching is different in optical network than Ether	net. [6]
	c)	Explain SONET/SDH.	[6]

