Total No. of Questions : 10]	SEAT No.:
D1355	[Total No. of Pages : 2

[4858] - 1103

T.E. (Information Technology) (Semester - I) End Semester Examination COMPUTER NETWORK TECHNOLOGY

(2012 Pattern)

Time: 3 Hours] [Max		Hours] [Max. Mar	ks : 70
Inst	ructio	ons to the candidates:	
	<i>1)</i>	Neat diagrams must be drawn wherever necessary.	
	<i>2)</i>	Figures to the right side indicate full marks.	
	3)	Assume suitable data if necessary.	
Q1)	a)	How token bucket algorithm works in case of smooth and bursty t	raffic.
	b)	What is classless addressing? Explain.	[4]
		OR	
Q2)	a)	Differentiate between IPv4 and IPv6.	[4]
	b)	A company is assigned site address 140.55.0.0. The company 1000 IP address. Find the no. of subnet and range of IP address subnet.	
Q 3)	a)	State the ICMP message format and list ICMP message types.	[6]
	b)	Explain Mobile IP.	[4]
		OR	
Q4)	a)	Explain working of DHCP with transition diagram.	[6]
	b)	How to overcome the problems in RIP?	[4]
Q 5)	a)	Write characteristics of radio propagation and propagation impair	ments.
	b)	Explain Bluetooth architecture and its protocol stack.	[10]

Q6)	a)	Write short note on: (any two)	[10]
		i) LEACH	
		ii) AODV	
		iii) DSR	
	b)	Explain IEEE 802.11 FHSS and DSSS.	[8]
Q 7)	a)	Explain the basic architecture of WLAN and discuss various comportin it.	nents
	b)	Discuss naming and addressing in wireless sensor network.	[8]
		OR	
Q 8)	a)	State different MAC protocols in sensor network? Explain S-MA detail.	C in [8]
	b)	What are different design issues and challenges of wireless se network?	nsor [8]
Q9)	a)	Explain in detail CSMA/CA.	[8]
	b)	Differentiate between content based and geographic routing.	[8]
		OR	
Q10	a)	Explain SPIN routing protocol for WSN.	[8]
	b)	What are the advantages and disadvantages of BYOD?	[8]

