Total No. of Questions : 10]	SEAT No. :	
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P2908

[4958]-1103

[Total No. of Pages: 2

T.E. (Information Technology) COMPUTER NETWORK TECHNOLOGY (2012 Pattern) (Semester - I) (End Sem) (314441)

Time: 2½ Hours] [Max. Marks: 70 **Instructions:** 1) Neat diagram must be drawn whenever necessary. Figures to the right side indicate full marks. 2) 3) Assume suitable data if necessary. State reasons for having layered architecture and its disadvantages. [6] *Q1*) a) Compare connection oriented and connection less services. b) [4] OR Explain choke packets and hop by hop choke packets. **Q2)** a) [6] Compare link state routing and distance vector routing. [4] b) *Q3*) a) Draw and explain IPV4 leader format. [6] State classes in IP addressing with range of addresses and no of devices b) that can be connected. [4] OR *Q4*) a) State and explain. Name Address resolution techniques in DNS. [6] Explain persistent and non persistent HTTP. [4] b) Explain Bluetooth architecture. **Q5)** a) [8] Explain Frame format of IEEE 802.16 [8] b)

OR

Q6)	a)	Explain MAC layer mechanism of IEEE 802.11.	[8]
	b)	Describe with neat diagram WLAN architecture.	[8]
Q7)	a)	Explain difference between pure and slotted ALOHA.	[8]
	b)	Discuss naming and addressing in wireless sensor network.	[8]
		OR	
Q8)	a)	What are various design issues and challenges of WSN.	[8]
	b)	Explain following terms	
		i) Data aggregation	
		ii) Data diffusion	
		iii) Data dissemination	[8]
Q9)	a)	Explain content based and geographic routing.	[10]
	b)	Explain STEM for energy conservation in MAC layer.	[8]
		OR	
Q10,) a)	Write short note on (any two)	[10]
		i) LEACH	
		ii) LOT	
		iii) DSR	
	b)	Explain SPIN routing protocol in WSN.	[8]

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