Total No. of Questions: 10] SEAT No:	
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P1763

[5058]-403

[Total No. of Pages: 2

T.E.(Information Technology) COMPUTER NETWORK TECHNOLOGY (2012 Pottorn) (Someston, I) (214441) (End Someston)

(2012 Pattern) (Semester -I) (314441) (End Semester) *Time* : 2.½ *Hours*] [Max. Marks : 70] Instructions to the candidates: Neat diagrams must be drawn wherever necessary. *2*) Figures to the right indicate full marks. Assume suitable data if necessary. *3*) **Q1**) a) Explain distance vector routing with count to infinity problem. [6] b) Explain multiplexing technique at transport layer. [4] OR **Q2**) a) Why three timers are required in TCP timer management? **[6]** b) Define subnetting, supernetting and classless addressing. [4] What is domain name system? explain how a resolver looks up a remote **Q3**) a) name with suitable example. [6] What is MIME? Discuss its role in SMTP. [4] b) OR State and explain six commands in FTP. [6] **Q4**) a) Explain static and Dynamic Web pages. b) **[4]** Compare bluetooth and 802.11. What are the limitations of Bluetooth.[8] **Q5**) a) what are Hidden Station and exposed station problems in WLAN? [8] b) OR Explain BSS and ESS in 802.11. [8] **06**) a) Describe Bluetooth protocol stack. [8] b)

Q7)	a)	What are the operating environmental constrainst in WSN?	[8]
	b)	List different routing protocols used by WSN. Explain LEACH protocol	1. [8]
		OR	
Q 8)	a)	Describe each component in sensor node architecture.	[8]
	b)	List any six applications of sensor networks and describe in detail.	[8]
Q9)	Writ	e short note on (Any three)	[18]
	a)	SPIN	
	b)	100G	
	c)	IOT	
	d)	S-MAC	
		OR	
Q10)Writ	te short note on (Any three)	[18]
	a)	PEGASIS	
	b)	BYOD	
	c)	SDN	
	d)	AODV	

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