SEAT No.:		
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P2615

[5153] - 591

T.E. (Information Technology)

COMPUTER NETWORK TECHNOLOGY

		(2012 Pattern) (Semester - I) (End-Sen	n.)
Tim	e: 2	2½Hours]	[Max. Marks :70
Insti	ructi	ions to the candidates:	
	1)	Neat diagrams must be drawn wherever necessary.	
	2)	Figures to the right indicate full marks.	
	<i>3)</i>	Your answers will be valued as a whole.	
	4)	Assume suitable data if necessary.	
Q1)	a)	Differentiate among circuit switching, packet switching with one example.	ching and message [6]
	b)	Explain various transport layer services.	[4]
		OR	
Q2)	a)	What is socket? Explain various client and server so	cket primitives. [6]
	b)	Write a short note on Quality of service. Parameters in	n Transport layer.[4]
Q3)	a)	A company is granted a site address 201.70.64.0. T six subnets. Design the subnets.	The company needs [6]
	b)	Lists the areas of network management and explain three.	the necessity of any [4]
		OR	
Q4)	a)	What is DNS? What is server hierarchy? Explain dom process.	ain name resolution [6]
	b)	Explain in detail how TCP provides flow control.	[4]

Q5)	a)	Explain the basic architecture of WLAN and discuss various com in it.		
	b)	Compare: Bluetooth and wireless LAN.	[8]	
		OR		
Q6)	a)	Explain Bluetooth features and architecture with suitable diagram.	[10]	
	b)	Explain frame format of 802.16.		
Q 7)	a)	Explain following terms w.r.t. WSN:	[8]	
		i) Data aggregation.		
		ii) Data diffusion.		
		iii) Data dissemination.		
		iv) Multicast.		
	b)	What are different design issues of MAC protocol for WSN?	[8]	
		OR		
Q8)	3) a) List different routing protocols used by WSN. Explain any one in do			
	b)	Explain Set up phase and steady state phase of LEACH protocol.	[8]	
Q9)	a)	Explain the tasks of address management in WSN.	[8]	
	b)	Describe DSDV Routing protocols.	[8]	
		OR		
Q10)Writ	te short note on (any two):	[16]	
	a)	Internet of Things (IoT).		
	b)	Software Defined Networking (SDN).		
	c)	BYOD.		