Total	No.	of Questions: 10] SEAT No.:
P33	93	[Total No. of Pages : 2
		[5353] > 596
		T.E. (Information Technology) (Semester - II)
		COMPUTER NETWORK TECHNOLOGY
		(2015 Pattern)
Tima	2	[Max. Marks: 70
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Instr		ons to the candidates:
	1) 2)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10.  Neat diagrams must be drawn wherever necessary.
	3)	Figures to the right side indicate full marks.
	4)	Assume suitable data if necessary.
<i>Q1)</i>	a)	What is DHCP? What is its advantage? Explain various messages used in DHCP.
	b)	Explain different timers used in TCP. [4]
		ORO
<i>Q2)</i>	a)	What is DNS? What is server hierarchy? Explain domain name resolution process. [6]
	b)	Explain the operation of NAT with suitable example. [4]
Q3)	a)	Explain Leaky bucket and Token bucket algorithm. [6]
	b)	Explain in brief SMTP protocol. [4]
		OR 6
Q4)	a)	Explain with neat diagram OSPF routing protocol. [6]
	b)	Write a short note on Quality of Service parameter in Transport Layer.
	,	[4]

<b>Q</b> 3) a)	Explain the basic architecture of WLAN and discuss various components in it. [8]
b)	Compare Bluetooth and 802.11. What are the limitations of Bluetooth?  [8]  OR
<b>Q6)</b> a)	What are hidden station and exposed station problem in WLAN. [8]
b)	Describe MAC layer mechanism of IEEE 802.11. [8]
<b>Q7</b> ) a)	Differentiate between infrastructure network and infrastructure less network and What are issues in Adhoc wireless network? [8]
b)	Explain routing protocols in detail.  OR  [8]
<b>Q8)</b> a)	Write short note on MACAW protocol. [8]
b)	Explain operation of TCP-F. [8]
<b>Q9</b> ) a)	Describe each component in sensor node architecture. [10]
b)	Short note on: [8]
	<ul><li>i) IOT.</li><li>ii) Wireless Sensor Network.</li></ul>
	OR
<b>Q10)</b> a)	Explain in detail LEACH algorithm. [10]
b)	Short note on SDN and Satellite. [8]
	i) IOT. ii) Wireless Sensor Network.  OR  Explain in detail LEACH algorithm.  [10]  Short note on SDN and Satellite.  [8]