Total No. of Questions: 10]	SEAT No.:				
P3004	[Total No. of Pages : 2				
[5669]-596					
T.E. (Information Technology)					
COMPUTER NET	WORK TECHNOLOGY				

		[2002]-230
		T.E. (Information Technology)
		COMPUTER NETWORK TECHNOLOGY
		(2015) Pattern) (Semester - II)
		[Max. Marks: 70
Insu	исно 1)	ns to the condidates: Answers Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7, or Q.8, Q9 or Q.10.
	2)	Neat diagrams must be drawn wherever necessary.
	3)	Figures to the right indicate full marks.
	<i>4</i>)	Assume suitable data if necessary.
		, 6. ·
Q1)	a)	Class B network 150. 160.0.0 with default subnet mask, how can you
		divide it into 8 equal subnets? How many hosts can be accommodated
	0	in each subnetwork? [4]
	b)	What is the purpose of SMI and MIB in relation to SNMP? [6]
		OR O
02)		
Q2)	a)	Explain the operation of NAT with suitable example. [4]
	b)	What is DHCP? What is its advantage? Explain various messages used
		in DHCP?
		6.
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Q3)	a)	What is DNS? What is service hierarchy? Explain domain resolution
		process? [6]
	b)	Explain Brief SMTP protocol. [4]
		OR OR
Q 4)	a)	Explain with neat diagram of OSPF routing protocol? [6]
2 - /		
	b)	Write a short note on Quality of service parameter in Transport Layer.[4]
Q 5)	a)	Explain architecture of Bluetooth? [8]
	b)	Explain the basic architecture of WLAN and discuss basic component
	,	in it.

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		OR O		
Q6)	a)	Explain 802.16 Protocol stack and its frame format. [8]]	
	b)	Compare IEEE 802.3 (Wired Lan) and IEEE 802.11 (Wirless LAN.) [8]]	
Q 7)	a)	Write short note on MACAW? [8]]	
	b)	Difference between infrastructure network and infrastructure less network.		
		What are the issues in Ad-hoc sensor network? [8]	J	
		OR OR		
Q 8)	a)	Describe DSDV routing protocol [8]]	
	b)	Short note on Dynamic source routing protocol. [8]]	
Q9)	a)	Describe each component of senor node architecture with diagram.[10]]	
	b)	Compare LEO, MEO and GEO. [8]]	
	(OR OR		
Q10)Wri	te short note on following: (any two) [18]]	
	a)	SDN		
	b)	IOT		
	c)	LEACH		
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