Total No. of Questions : 10]	290	SEAT No. :
P3640	[5560]-596	[Total No. of Pages : 2
<b>T.E.</b> (1	Information Technol	logy)

## T.E. (Information Technology) COMPUTER NETWORK TECHNOLOGY (2015 Pattern) (Semester - II) (314450)

		COMPUTER NETWORK TECHNOLOGY	
		(2015 Pattern) (Semester - II) (314450)	
Time	: 21/2	2 Hours] [Max	x. <i>Marks</i> : 70
		ons to the candidates:	
1	1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.	
2	2)	Neat diagrams must be drawn wherever necessary.	
ź	•	Figures to the right side indicate full marks.	
4	4)	Assume Suitable data if necessary.	
Q1)	a)	For a given class C network 195.188.65.0. Design the equal such a way that each subnet has at least 50 nodes.	l subnets in [6]
	b)	Explain the three way handshake algorithm for TCP cestablishment.	connection [4]
		OR	
Q2)	a)	What is DNS Server? Explain lookup methods used by the	
		resolve the remote names.	[6]
	b)	Explain Network Layer services with example.	[4]
Q3)	a)	How Nagle algorithm helps in TCP transmission policy? I	Explain the
,		Clark's solution to overcome the silly window syndrome.	[6]
	b)	What is MIME? Discuss its role in SMTP?	[4]
		OR	
<b>Q</b> 4)	a)	Write short note on POP3 and IMAP.	[6]
	b)	Explain TCP header format.	[4]
Q5)	a)	Explain the issues in designing a routing protocol for Ad-ho Network.	oc Wireless [8]
	b)	Explain the basic architecture of WLAN and various components	ents in it.[8]
		OR O	
<i>Q6)</i>	a)	What are the functions of the security sub layer in 802.16?	[8]
	b)	Describe Bluetooth protocol stack with suitable diagram.	[8]

$Q^{\gamma}$	a)	Explain operations of Split TCP. Explain its advantage and disadvantage	es.[ <b>8</b> ]
	b)	Explain AODV & DSDV in details.	[8]
		OR	
Q8)	a)	What is Adhoc Network? Explain challenges in designing Routing Profor Adhoc wireless networks.	otocol [8]
	b)	Explain MACAW protocol in details.	[8]
Q9)	a)	Explain the architecture of SDN in details.	[10]
	b)	Write a short note on	
		i) Network Function Virtualization	
		ii) Network Neutrality.	[8]
		OR OR	
Q10	) a)	Explain IOT architecture in detail. What are the issues and challeng Internet of Things?	ges in [10]
	b)	Compare LEO, MEO and GEO Satellite.	[8]
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