Total No. of Questions : 8]		SEAT No. :
PD4297	[6403].05	[Total No. of Pages : 2

T.E. (Electronics & Telecommunication Engineering) COMPUTER NETWORKS

	COMPUTER NET WORKS	
	(2019 Pattern) (Semester - V) (Elective - I) (304185(D))	
	20, 89.	
Time : 2 ¹ /	2 Hours] [Max. Mark	s:70
Instructio	ons to the cardidates:	
1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
2)	Neat duagrams must be drawn wherever necessary.	
<i>3</i>)	Figures to the right side indicate full marks.	
<i>4</i>)	Use of Calculator is allowed.	
5)	Assume Suitable data if necessary.	
Q1) a)	Explain the various performance parameters of network Layer.	[6]
b)	Explain the services provided by Network Layer.	[6]
c)	Compare datagram switching and virtual circuit switching.	[6]
	OR	
Q2) a)	Explain error reporting messages, informational messages, neig	hbor
~ /	discovery messages and group membership messages relate	
	ICMPv6.	[6]
1 \	F. 1	
b)	Explain network id and host id.	[6]
c)	What is difference between classless addressing and classfull address	ssing
- /	related to IPv4 addresses?	[6]
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Q3) a)	Explain unicast routing and multicast routing protocol.	[9]
Q(3) a)	Explain unleast routing and muticast routing protocol.	נין
b)	What is routing? Explain the distance vector routing algorithm.	[8]
X	OR	
Q4) a)	What is routing? Explain the link state routing algorithm.	[9]
b)	Explain inter-domain and intra-domain routing.	[8]
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Q5)	a)	Explain TCP services and its features with relevant diagram.	[9]
	b)	Explain various transport layer quality of services parameters.	[8]
		QR	
Q6)	a)	Explain TCP connection establishment using three way handshal	xing.[9]
	b)	Explain UDP protocol and its features with relevant diagram.	[8]
Q 7)	a)	Explain the DNS in detail.	[6]
	b)	Explain FTP protocol.	[6]
	c)	Explain simple mail transfer protocol.	[6]
		OR jis	
Q 8)	a)	Explain internet message access protocol.	[6]
	b)	Explain how DNS server works.	[6]
	c)	Explain dynamic host configuration protocol.	[6]
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