		Subject Code:	5286		
M.Sc. Information Technology 2 nd Semester NETWORK DESIGN AND PERFORMANCE ANALYSIS					
		Paper—MIT-205			
Tim	ie All	owed –3 Hours] [Maximum Mark	s—100		
Not	te :	-Attempt any FIVE questions. All question equal marks.	is carry		
1.	(a)	What are different business requirements of p	usiness requirements of planning		
		and choosing networks? Explain.	10		
	(b)	How traffic sizing is measured in network pla	nning?		
	•	Elaborate.	10		
2.	(a)	Discuss the procedure for throughput calcula	ation of		
		networks.	10		
	(b)	What are traditional traffic engineering me	thods?		
		Explain.	10		
3.	Exp	olain the following by taking an example of e	example of each:		
	(a)	Packet switched traffic modeling	10		
	(b)	Traffic matrix.	10		
4:	Compare the following:				
	(a)	Private vs Public Networking	10		
	(b)	Packet switching and cell switching.	-10		

5.	Discuss the following parameters for network comparison:			
	(a)	Throughput	5	
	(b)	Burstiness	5	
	(c)	Delay Tolerance	5	
	(d)	Response time.	5	
6.	•	cuss the procedure for tuning the network to cwork and backbone design.	optimize 20	
7.	(a)	How network optimization can be achieved?		
	(b)	Discuss the tools for measuring network optim	nization. 10	
8.	Write short notes on the following:			
	(a)	Tools for securing the network.	10	
	(b)	Network Modeling.	10	
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