Exam. Code: 208602 Subject Code: 4130

M.Sc. Information Technology 2nd Semester NETWORK DESIGN & PERFORMANCE ANALYSIS

Paper—MIT-205

Time Allowed—3 Hours]

[Maximum Marks—100

Note:—Attempt FIVE questions in all. Select at least one question from each section. The fifth question may be attempted from any section.

SECTION-A

- 1. (a) What are the technical requirements for designing a network? Explain their role.
 - (b) How traffic engineering considers peak and latency? Describe.
- (a) What are the characteristics of traffic in networks?
 Explain.
 - (b) Compare the different methods for capacity planning of networks.

SECTION—B

3. (a) How a service provider and service levels are identified for network? Describe.

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1

(Contd.)

	(b)	What are business aspects of packet services? Explain.	switching 10
4.	Explain the following:		
	(a)	High speed LAN protocols	10
	(b)	Private and public networks	10
		SECTION—C	
5.		cuss the following concepts by takin mples:	g suitable
	(a)	Tuning the network	10.
	(b)	Securing the network	10
6.	Explain the following concepts:		
	(a)	Network backbone design	10
	(b)	Network design tools	10
		SECTION—D	
7.	(a)	What are the benefits of network opti Explain.	mization?
	(b)		
	(0)	optimization.	10,
8.	Write notes on the following:		
	(a)	Network Security design	10
	(b)	Tools for network optimization.	10