Exam. Code : 206701 Subject Code 3666

## M.Sc. Computer Science 1st Semester NETWORK DESIGN AND PERFORMANCE **ANALYSIS**

Paper: MCS-103

Time Allowed—3 Hours [Maximum Marks—100

Note: - Attempt five questions selecting at least one question from each section and the fifth question may be attempted from any section. All questions carry equal marks.

## SECTION-A

- What are the methods for modeling network performance? Discuss the role of traffic matrix and design tools. 20
- (a) How technology choice is carried out in networks? Explain. 10
  - (b) Discuss the procedure for identifying the requirements of a network design. 10

## SECTION-B

- (a) Explain the concept of Traffic Engineering. 10 3.
  - (b) Discuss the role of different types of Traffic modeling techniques. 10

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4.	Discuss the following concepts:		
	(a)	Packet switched networks.	10
	(b)	Capacity planning in Traffic Engineering.	10
SECTION—C			
5.	(a)	Compare the protocols used for high speed LA	ANs.
	(b)	Compare the frame and cell switching serv	ices.
6.	(a)	Discuss the parameters for comparing application performance in networks.	ation 10
	(b)	How vendor and service provider is selected case of networks?	d in
SECTION—D			
7.	Discuss cryptographic and access control methods for implementing security in network systems. 20		
8.	Wri	te short notes on following:	
	(a)	Network tuning methods.	10
	(b)	SNMP.	10
		SECTION—B	
		(a) Explain the concept of Tradic Engine	