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Exam. Code: 208602 Subject Code: 8395

M.Sc. (Information Technology) Semester—II NET WORK DESIGN & PERFORMANCE ANALYSIS Paper—MIT-205

Time Allowed—3 Hours]

[Maximum Marks—100

Note:—Attempt and FIVE questions. All questions carry equal marks.

- 1. Discuss the network design considerations and requirements from business, technical and user view points.
- 2. Describe the following topics:
 - Throughput calculation
 - Traffic characteristics
 - Source models.

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- Discuss network design consideration while designing for peak loads, networks delays and latency.
- What is a network traffic matrix? How is it created and used? Also discuss some important components of design tools.

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Compare and contrast the following: - Packet, frame and cell switching services - High speed LAN protocols. 20 What do you understand by network design layers and 6. beetbone network design? Also discuss design and capaci'y of access network. 20 7. What do you understand by network tuning and network security? Also discuss network security by design and network security by implementation. 20 Discuss the following in network optimization context: 8. Optimization tools and Optimization techniques.