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Exam. Code : 208603

Subject Code: 4718

M.Sc. Information Technology 3rd Semester

NETWORK PROTOCOLS

Paper- MIT-301

Time Allowed—3 Hours]

[Maximum Marks—100

Note: — Candidates are required to attempt **five** questions, selecting at least **one** question from each Section. The **fifth** question may be attempted from any Section. All questions carry equal marks.

SECTION—A

- 1. Briefly explain about layered architecture of internet.
- 2. Define internet address. What is ARP and RARP? Explain in detail. Explain the difference between ARP and RARP.

SECTION—B

- 3. What is address resolution problem and explain resolution through direct mapping and dynamic binding?
- 4. (a) Differentiate primary and backup RARP services.
 - (b) Define routing IP with the connectionless datagram delivery.

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(Contd.)

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SECTION—C

- 5. Describe the following terms:
 - (a) Connectionless delivery system.
 - (b) Direct and indirect delivery using datagram.
 - (c) Difference between next hop routing and table driven IP routing.
- 6. Explain ICMP in detail. Write down error reporting versus error detection technique. Explain ICMP message format with example.

SECTION-D

- 7. Explain briefly TCP header frame format. Describe the process of establishing a TCP connection.
- 8. Explain about the features of TCP and UDP with diagrams.