Exam. Code : 208603 Subject Code : 5245

M.Sc. (Information Technology) 3rd Semester NETWORK PROTOCOLS Paper—MIT-301

Time Allowed—3 Hours]

[Maximum Marks—100

Note:—(1) There are total EIGHT questions. Candidates are required to attempt any FIVE. Each question carries 20 marks.

- (2) The students can use only non-programmable and non-storage type calculator.
- 1. Explain the IP routing process in detail with a diagram.
- 2. What are subnet addressing and its need? How subnets are implemented?
- 3. Explain the two step bootstrap procedure and its message format in detail.
- 4. Explain the salient features of IPv6 in detail. With neat architecture, explain TCP in detail.
- 5. Discuss IP routing and distance vector routing procedure.
- Explain with figure about the broadcast and multicast routing.
- 7. Discuss various methods used for IP address management with DHCP.

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(Contd.)

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- 8. Write short notes on (Attempt ALL):
 - (a) Why is ARP & RARP required?
 - (b) Define CSMA/CD.
 - (c) What is a DHCP?
 - (d) What is link-local address?
 - (e) What do you mean by Network topologies?

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