Exam. Code : 208603 Subject Code : 4719 M.Sc. (IT) 3<sup>rd</sup> 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 architecture of internet and highlight various properties of internet.
- 2. Discuss the subnet addressing and the implementation of subnets with masks representation. Discuss the routing in the presence of subnets.
- 3. Discuss the role of RARP by taking a suitable example. What are the types of RARP servers ? How RARP is different from ARP ?
- 4. Discuss the message format and functionality of Internet Control Message Protocol (ICMP). How error reporting and detection is done using ICMP ?

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- 5. Discuss the IP datagram connectionless service. Explain how routing is done using IP datagram.
- 6. Discuss the functionality of TCP along with its message format. Also discuss the connection establishment procedure using TCP. How TCP is different from UDP ?
- 7. Discuss the UDP multiplexing and de-multiplexing. How checksum is computed in UDP ?
- 8. Write short notes on :
  - (a) IP addressing classes
  - (b) Table driven IP routing.

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