

**Duration: Three Hours**

**Maximum Marks: 80**

**N.B.:**

1. Question No.1 is compulsory.
2. Out of the remaining five questions attempt any three questions.
3. Assume suitable data if required and state it clearly.
4. Figures in brackets to the right indicate full marks.

- 1 Attempt **any FOUR** (20)
    - a What is LAN emulation? (5)
    - b What are different services provided by TMN service architecture? (5)
    - c Explain probe functions for remote monitoring. (5)
    - d Difference between MIB and MDB? (5)
    - e Why do we need network management? (5)
  - 2
    - a List and describe network management architecture? (10)
    - b Describe two-tier and three-tier network management organization model.. (10)
  - 3
    - a What is SNMP Proxy server. (10)
    - b What are the functional requirements of NMS design. (10)
  - 4
    - a Draw a neat diagram of TMN layered architecture and explain details? (10)
    - b What is fault management? Describe five steps process in fault management? (10)
  - 5
    - a Explain various M-interfaces used between an ATM end user or device and an ATM network? (10)
    - b Explain different types of event correlation techniques. (10)
  - 6
    - a Write a short note on **any TWO** (20)
      - a) Policy Based Network Management.
      - b) TNM Conceptual Model
      - c) Common Management Information Services
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