

(3 Hours)

[Total Marks: 100]

N.B.: (1) **Question No.1 is compulsory.**

(2) Attempt **any three** questions from the remaining questions.

(3) Assumptions made should be clearly stated.

(4) Assume any suitable **data** wherever **required** but **justify the same**.

(5) **Figures** to the right indicate **full marks**.

(6) **Illustrate answer** with **sketches** wherever **required**.

- 1 a) Explain two-tier network management organization model. [05]
 b) Compare between CMIS/CMIP and SNMP. [05]
 c) Explain TNM conceptual model. [05]
 d) Explain the challenges faced by the network managers while managing a network. [05]
- 2 a) Explain the purpose of TRAP and Discuss the SNMP TRAPS. [10]
 b) Describe SNMP various command with syntax. [10]
- 3 a) Explain ATM Network Management. [10]
 b) Explain User security model (USM) of SNMP v3. [10]
- 4 a) Explain various M interfaces used between ATM end user or Device and ATM network. [10]
 b) Explain ATM remote monitoring. [10]
- 5 a) Describe network management information Model. [10]
 b) Describe Network Management Communication and Function Model. [10]
- 6 a) Explain the need for TMN and Hence OSI network Management Architecture. [10]
 b) Explain the service offered by CMISE. [10]