



- 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]
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