[Time: Three Hours]   **[Marks:80]**

Please check whether you have got the right question paper.

N.B: 1.   Q.1 is compulsory
        2.   Solve any three questions out of remaining.
        3.   Assume suitable data if necessary stating it clearly

Q.1. a) What is OMAP in network management?   05
      b) What is MIB?   05
      c) Compare between SNMPv1 and SNMPv3?   05
      d) Describe Code Book Reasoning based event correlation technique?   05

Q.2   a) You are administering the 24000 workstations in an organization. You are pinging each station   10
          periodically. The message size in both directions is 128 bytes long. The NMS you are using is
          on a 10-Mbps LAN, which functions with 30% efficiency. What would be the frequency of your
          ping if you were not to exceed 5% overhead?

      b) List and describe SNMP various commands with command syntax.   10

Q.3   a) With respect to ISO/OSI network management: Describe following terms: 10
              i.   Scoping and Filtering
              ii.   Linked Replies
              iii. GDMO
              iv.   ACSE and ROSE

      b) Draw a neat diagram of TMN functional architecture with interfaces   10

Q.4   a) List and describe RMON2 MIB Groups and their functions.   10

      b) What is SNMP proxy server?   10

Q.5   a) What is ASN.1? Explain in detail.   10

      b) Draw and describe SNMP message and PDU formats.   10

Q.6   a) Explain the significance of Trap. Describe the different types of traps.   10

      b) What is ATM Network management?   10

****