

BE EXTc Q. sem VIII (Rev) 22/M-2013
Sub - EL-II ~~IP~~, TNM

QP Code : MV-19147

(3 Hours)

[Total Marks : 100

- N. B. : (1) Question No. 1 is **compulsory**.
(2) Attempt any **four** questions from **remaining** questions.
(3) Make suitable **assumptions** wherever necessary and clearly justify them.

1. (a) What is Remote Monitoring ? Explain RMON1 MIB. 5
(b) State the goals of network management. 5
(c) Explain SNMPv1 PDU format. 5
(d) State the services offered by CMISE. 5
2. (a) Compare different network management standards with their key features. 10
(b) Describe OSI network management model. 10
3. With respect to network management, explain following in detail :-
 - (a) Manager 2
 - (b) Management agent 2
 - (c) MIB 4
 - (d) SMI 4
 - (e) ASN.1 4
 - (f) BER. 4
4. (a) Describe TMN conceptual model. 10
(b) List and explain SNMPv2 commands. 10
5. (a) State the additional capabilities of RMON2 over RMON1 and explain how these capabilities can be used for an enterprise network management. 10
(b) Describe the SNMPv3 user-based security model. 10
6. (a) Explain the functional requirements of NMS design. 10
(b) Explain the five types of applications defined by SNMPv3. 10
7. Write short notes on (any two) :- 20
 - (a) ATM reference model defined by ATM Forum.
 - (b) Comparison between SNMP and CMIS/CMIP.
 - (c) SNMP proxy server.