

Time: 3 Hour

Marks: 80

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

(2) Solve any three questions from the remaining five

(3) Figures to the right indicate full marks

(4) Assume suitable data if necessary and mention the same in the answer sheet.

Q1. Attempt any 4 questions

[20]

- A) What are the perspectives of Network Managers?
- B) Show the encoding for the INTEGER 1456.
- B) Explain in brief OSI Management System Architecture.
- C) Explain the basic objectives and need for a TMN.
- D) Analyze five-step process involved in Fault management.
- E) Explain in detail the Broadband Service Networks.

Q2. A) How Network provisioning play role in Configuration Management.

[5]

B) Show the encoding for the OCTET STRING "Hello World."

[5]

C) Explain Performance Metrics to defining network performance on a global level.

[5]

D) Justify the role of SNMP and ILMI in ATM Management.

[5]

Q3 A) Elaborate the encoding methods used in SMI

[5]

B) What is ATM LAN emulation

[5]

C) Explain different types of reports used in Report Management.

[5]

D) Draw and explain TMN Functional Architecture.

[5]

- Q4 A) Explain ATM Network Reference Model **10**
B) Draw and explain SNMPv3 **10**
- Q5 A) Classify and explain the OSI network management organizational model. **10**
B) Explain M1, M2, M3, M4, M5 interface in Network Management. **10**
- Q6 A) What do you mean by event correlation technique. Propose and explain any two event correlation techniques. **10**
B) Classify the services provided by Common Management Information Service Elements (CMISEs) and also explain the communication protocol used for intersystem communication (CMIP). **10**
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