



USN

Grid for USN entry: 10 empty boxes.

10CS/IS834

Eighth Semester B.E. Degree Examination, June/July 2016
Network Management Systems

Time: 3 hrs.

Max. Marks: 100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART -- A

- 1 a. Explain Data and Telecommunication Networks with neat diagrams. (10 Marks)
- b. Briefly explain Network Management functional groupings with neat diagrams. (10 Marks)
- 2 a. What are network management standards? Explain. (06 Marks)
- b. Briefly explain models in OSI Network management architecture model with a necessary diagram. (08 Marks)
- c. Explain Information model with a neat diagram. (06 Marks)
- 3 a. Explain SNMP organization model with neat diagram. (10 Marks)
- b. Explain the system overview of SNMP network management architecture with neat diagram. (10 Marks)
- 4 a. Explain the SNMP based ASN.1 data type structure with a necessary diagram. (10 Marks)
- b. Explain the encoding structure used in SNMPv1. (05 Marks)
- c. Explain the structure of Managed objects. (05 Marks)

PART -- B

- 5 a. What is Remote monitoring (RMON)? Explain the advantages of using Remote monitoring with a necessary diagram. (10 Marks)
- b. Explain various groups and functions RMON1 performs at the data link layer. (10 Marks)
- 6 a. With a neat sketch explain :
 - i) Layered architecture of LAN emulation across ATM
 - ii) LAN emulation client connections across LUNI
 (10 Marks)
- b. Explain with neat sketches :
 - i) ATM network reference model
 - ii) M2 interface.
 (10 Marks)
- 7 a. Explain with neat sketches Broadband access technology and HFC Technology. (10 Marks)
- b. Explain the protocol layer architecture in an HFC system. (05 Marks)
- c. What are ADSL network management elements? Discuss ADSL fault management. (05 Marks)
- 8 a. What are event correlation techniques? List the approaches. Explain rule based reasoning with neat sketches. (10 Marks)
- b. Explain client/server Authentication system. (10 Marks)

Important Note : 1. On completing your answers, cursorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.