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10CS/IS834

Eighth Semester B.E. Degree Examination, June/July 2018
Network Management System

Time: 3 hrs.   Max. Marks:100

Note: *Answer FIVE full questions, selecting*
atleast TWO questions from each part.

PART – A

1 a. What is network management? Explain three major groups of NMS with necessary diagram. **(10 Marks)**
   b. Explain the internet Fabric Model with diagram. **(05 Marks)**
   c. List the challenges faced by network manager for managing the network. **(05 Marks)**

2 a. List out the 5 different network management standard with its silent features. **(08 Marks)**
   b. What is Basic Encoding Rule (BER)? With an example explain the TLV format. **(06 Marks)**
   c. What is managed object? Explain with an example managed object perspectives with reference to internet perspective. **(06 Marks)**

3 a. Explain SNMP organization model with the neat diagram. **(08 Marks)**
   b. Write a note on information model. **(06 Marks)**
   c. With a neat diagram, explain the network management architecture of SNMP. **(06 Marks)**

4 a. List and explain the SNMP. Base ASN.1 data type structure. **(10 Marks)**
   b. Explain internet MIB – II group with a neat diagram. **(10 Marks)**

PART – B

5 a. What is Remote Monitoring (RMON)? Explain RMON1 groups and function with diagram. **(08 Marks)**
   b. Discuss RMON Token Ring MIB groups and tables. **(06 Marks)**
   c. Write a note on ATM remote monitoring. **(06 Marks)**

6 a. Explain the fine Broadband Access Technology. **(06 Marks)**
   b. Explain Virtual path – Virtual circuit concept. **(04 Marks)**
   c. Explain M1 and M2 interface with neat diagram. **(10 Marks)**

7 a. Explain with a neat diagram protocol – layer architecture in a cable Access Network System. **(06 Marks)**
   b. Explain ADSL system reference model for Management with diagram. **(06 Marks)**
   c. Describe ADSL encoding and ADSL channeling schemes. **(08 Marks)**

8 a. Explain the rule based reasoning used to isolate and localize faults in network. **(10 Marks)**
   b. Explain different types of client/server authentication system. **(10 Marks)**

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