USN [| | | | | | | | |]   10CS/IS834

Eighth Semester B.E. Degree Examination, Dec.2018/Jan.2019
Network Management Systems

Time: 3 hrs.   Max. Marks:100

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

PART – A

1   a. What is Network Management? Explain three major groups of network management functions, with necessary diagram. **(10 Marks)**
    b. With neat diagram, explain network management Dumbbell architecture. **(06 Marks)**
    c. List the problems that are common in Network Management System. **(04 Marks)**

2   a. Explain the salient features of various Network Management standards. **(08 Marks)**
    b. Explain the functional model of Network Management System. **(08 Marks)**
    c. Explain TLV encoding structure with values of class bits. **(04 Marks)**

3   a. Explain Two – Tier, Three – Tier and Proxy server models of organization model. **(08 Marks)**
    b. With a neat diagram, explain Network Management architecture of SNMP. **(08 Marks)**
    c. Write a note on history of SNMP management. **(04 Marks)**

4   a. Explain in brief SNMP ASN.1 data types. **(08 Marks)**
    b. Explain Get – Next – Request Operation, with an example. **(06 Marks)**
    c. Discuss the various SNMP Generic Traps. **(06 Marks)**

PART – B

5   a. What is Remote Monitoring? With figure, explain use of RMON probe. **(05 Marks)**
    b. With neat diagram, explain RMON1 groups and functions. **(10 Marks)**
    c. What are the possible locations to place an ATM RMON probe? Explain with diagram. **(05 Marks)**

6   a. Explain the layered architecture to a ATM LAN emulation. **(10 Marks)**
    b. Explain the following :
       i) M1 Interface   ii) ATM digital exchange interface management. **(10 Marks)**

7   a. Discuss Broadband access technology. **(08 Marks)**
    b. Explain the Protocol layer architecture in HFC system. **(08 Marks)**
    c. Explain the ADSL fault management parameters. **(04 Marks)**

8   a. What is Event Correlation? Explain Rule based reasoning in detail with necessary diagram. **(08 Marks)**
    b. Describe the various kinds of client / server authentication systems. **(08 Marks)**
    c. Write a short note on Fault Management. **(04 Marks)**

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