Eighth Semester B.E. Degree Examination, June/July 2017
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. Explain the telephone network model, with neat diagram.   (05 Marks)
    b. What is Network Management? With neat diagram, explain network management functional groupings.   (10 Marks)
    c. Explain the OSI protocol layers and services.   (05 Marks)

2   a. List and explain network management standards.   (06 Marks)
    b. Explain Organization model, Two – Tier network management organization model, Three – Tier network management organization model , Network management organization model with MOM.   (10 Marks)
    c. What are the five submodels of functional model and draw diagram for network management functional model.   (04 Marks)

3   a. Explain clearly the function of two – tier and three – tier SNMP organization model.   (10 Marks)
    b. Write short notes on :
       i)   Internet organizations and standards   ii)   The SNMP model.   (10 Marks)

4   a. Explain the structure of Management Information in Information model.   (10 Marks)
    b. Explain the administrative model in SNMP communication model.   (10 Marks)

PART – B

5   a. Explain RMON1 groups and functions.   (05 Marks)
    b. What is Remote Monitoring? With neat diagram, explain network configuration with RMONS.   (05 Marks)
    c. With neat diagram, explain ATM Remote Monitoring.   (10 Marks)

6   a. With a neat block diagram, explain protocol architecture of an ATM ELAN, with an Ethernet.   (10 Marks)
    b. Explain the following : i) Virtual LAN   ii) M₂ Interface.   (10 Marks)

7   a. Explain broad band LAN architecture.   (06 Marks)
    b. Explain ADSL Architecture.   (06 Marks)
    c. Explain the protocol layer architecture in HFC system.   (08 Marks)

8   a. Explain Fault Management techniques.   (06 Marks)
    b. Explain the different types of client/server authentication systems.   (08 Marks)
    c. Explain Policy – based Management Architecture.   (06 Marks)

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