USN | | | | | | | | | | | 18CS742

Seventh Semester B.E. Degree Examination, July/August 2022
Network Management

Time: 3 hrs.   Max. Marks: 100

Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

1 a. Explain Data and Telecommunication Networks with neat diagrams. **(10 Marks)**
    b. Explain ISO/OSI communication architecture. **(10 Marks)**

OR

2 a. Briefly explain network management functional groupings with neat diagrams. **(10 Marks)**
    b. What are the challenges in network management? Explain network management Dumbbell architecture with neat diagram. **(10 Marks)**

Module-2

3 a. List and explain network management standards. **(06 Marks)**
    b. List the components of network management model and explain information model in detail. **(10 Marks)**
    c. Explain TLV encoding structure. **(04 Marks)**

OR

4 a. Explain two-tier and three-tier. Network management organization model with neat diagram. **(10 Marks)**
    b. With an example explain characteristics of internet perspective and OSI perspective of managed objects. **(10 Marks)**

Module-3

5 a. Explain SNMP architecture with neat diagram. **(10 Marks)**
    b. What is SNMP community? Explain SNMP community profile and Access Policy. **(10 Marks)**

OR

6 a. What is remote monitoring (RMON)? With a figure explain use of RMON probe. **(06 Marks)**
    b. Explain RMON1 groups and functions. **(07 Marks)**
    c. Explain the relationship between control and data tables. **(07 Marks)**

Module-4

7 a. What is broadband access networks? Explain. **(07 Marks)**
    b. Explain HFL technology with neat diagram. **(07 Marks)**
    c. Explain various broadband access technologies. **(06 Marks)**

OR

8 a. What is CMTS? Explain Data over Cable Reference Architecture (CMTS) with neat diagram. **(10 Marks)**
    b. Explain ADSL system reference model with neat diagram. **(10 Marks)**

Module-5

9 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)**

OR

10 Write short notes on :
   a. Firewall
   b. Fault management
   c. Policy management
   d. Security management. **(20 Marks)**

* * * * *