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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 **(20 Marks)**
   d. Security management.

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