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**Seventh Semester B.E. Degree Examination, Jan./Feb. 2023**  
**Network Management**

Max. Marks: 100

Time: 3 hrs.

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

**Module-1**

- 1 a. What are the challenges of managing a network? Explain. (06 Marks)  
 b. Explain data telecommunication network with neat diagram. (07 Marks)  
 c. Explain network management functional grouping with neat diagram. (07 Marks)

OR

- 2 a. Explain ISO/OSI communication architecture. (10 Marks)  
 b. Write a note on network management dumbbell architecture with neat diagram. (10 Marks)

**Module-2**

- 3 a. Differentiate between organization model and information model. (10 Marks)  
 b. Explain management information trees. (10 Marks)

OR

- 4 a. What is managed object? Explain managed object perspectives with reference to OSI perspective. (10 Marks)  
 b. List SNMP-Based ASN.1 data type structures and explain in detail. (10 Marks)

**Module-3**

- 5 a. Explain SNMP organization model. (10 Marks)  
 b. With diagram explain about SNMP network management architecture. (10 Marks)

OR

- 6 a. What is Interfaces group? Explain with example. (07 Marks)  
 b. Define about Remote monitoring. List out the advantages of remote monitoring. (07 Marks)  
 c. Explain RMON token ring extension groups. <https://www.vtuonline.com> (06 Marks)

**Module-4**

- 7 a. Briefly explain ADSL Fault Management with example. (10 Marks)  
 b. With neat block diagram, explain HFC technology. (10 Marks)

OR

- 8 a. Explain Broadband LAN. (06 Marks)  
 b. What is ADSL technology? Briefly explain simplified ADSL access network with example. (10 Marks)  
 c. Define the cable modem termination system. (04 Marks)

**Module-5**

- 9 a. Explain about fault detection. (06 Marks)  
 b. Write a note on inventory management. (07 Marks)  
 c. Describe about performance metrics in performance management. (07 Marks)

OR

- 10 a. Briefly on protection of networks from virus attacks. (10 Marks)  
 b. Write a note on following:  
     (i) Accounting management. (10 Marks)  
     (ii) Report Management. (10 Marks)

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