

USN: 1 A 4 1 9 C S 0 2 5

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

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. 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. (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.
(ii) Report Management. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.