

Seventh Semester B.E. Degree Examination, Feb./Mar. 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 Telephone network model with neat diagram. (10 Marks)
b. Explain Internet fabric model/layered architecture of internet. (10 Marks)

OR

- 2 a. Explain ISO/OSI communication architecture. (10 Marks)
b. Briefly explain 2 case histories of Networking and Management. (10 Marks)

Module-2

- 3 a. Explain network management standards with salient features of each. (10 Marks)
b. What is MIT? Explain the conceptual view of managed object with example. (10 Marks)

OR

- 4 a. Explain two-tier and three-tier network management organization model with diagram. (10 Marks)
b. With neat diagram, discuss the functional model with example. (10 Marks)

Module-3

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

OR

- 6 a. What is Remote Monitoring? Explain its advantages. (10 Marks)
b. Explain SNMP protocol specifications with neat diagram. (10 Marks)

Module-4

- 7 a. Explain with neat sketches, broadband access technology. (10 Marks)
b. Briefly explain HFC technology with neat diagram. (10 Marks)

OR

- 8 a. Describe ADSL encoding and ADSL channeling schemes. (10 Marks)
b. Briefly explain ADSL fault management and ADSL performance management. (10 Marks)

Module-5

- 9 a. Write a short note on: i) Network provisioning ii) Inventory management. (10 Marks)
b. What is Event Correlation? List the different technique and explain case based reasoning in detail with necessary diagram. (10 Marks)

OR

- 10 a. Explain the following: i) Public key cryptography ii) Digital signature. (10 Marks)
b. What is client/server authentication system? Explain in detail. (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.