

CBCS SCHEME



USN

18CS742

Seventh Semester B.E. Degree Examination, Dec.2024/Jan.2025

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 diagram. (10 Marks)
- b. What are the challenges of IT managers? Describe in brief. (10 Marks)

OR

- 2 a. List and explain OSI layers and services with an architecture. (10 Marks)
- b. Explain network management functional groupings and functional flow chart. (10 Marks)

Module-2

- 3 a. Explain organization model in detail. With their respective diagrams. (10 Marks)
- b. Draw ASN.1 data types, structure and tag figure and explain in brief. (10 Marks)

OR

- 4 a. Explain functional model and network management. (10 Marks)
- b. Write an example for ASN.1 from ISO8824. (05 Marks)
- c. Draw the encoding structure of TLV and explain. (05 Marks)

Module-3

- 5 a. With a neat diagram, explain SNMP network management architecture. (10 Marks)
- b. What is remote monitoring? With a neat sketch, elaborate the use of RMON probe. (10 Marks)

OR

- 6 a. With neat diagram, explain RMON1 groups and functions. (10 Marks)
- b. Explain GET and SET types PDUS. (04 Marks)
- c. Discuss the various SNMP Generic traps. (06 Marks)

Module-4

- 7 a. Explain HFC network technology with an diagram. (10 Marks)
- b. Describe simplified ADSL Access Network. (10 Marks)

OR

- 8 a. With a neat diagram, explain Data over cable system reference in detail. (10 Marks)
- b. With a neat diagram, explain ADSL system reference model in detail. (10 Marks)

Module-5

- 9 a. What are event correlation techniques? Discuss.
(i) Rule-based reasoning (10 Marks)
(ii) Model based reasoning. (10 Marks)
- b. How you provide client/server authentication? Explain in detail. (10 Marks)

OR

- 10 a. List the security methods. Explain any two security management techniques in detail. (10 Marks)
- b. Explain policy based management and report management. (10 Marks)

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