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18CS742

Seventh Semester B.E. Degree Examination, June/July 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. With a neat sketch, explain the Analogy of Telephone Network Management. (10 Marks)
b. Explain the Client – Server Network Model in Distributed Computing Environment. (10 Marks)

OR

- 2 a. With a neat diagram, explain Internet Fabric Model. (06 Marks)
b. Explain the protocol OSI layers and what are the services offered by each layer. (04 Marks)
c. Explain the Network Management functional groupings with a neat diagram and draw the flow chart. (10 Marks)

Module-2

- 3 a. Explain the Network Management Standards and specify the Protocols for each standard. (08 Marks)
b. With a neat diagram, explain 2 – tier and 3 – tier Organization model. (06 Marks)
c. Explain the Managed Object Perspectives for Internal and OSI with neat diagrams. (06 Marks)

OR

- 4 a. Explain Communication Model, with a neat diagram. (04 Marks)
b. Explain with neat diagram ASN.1 Data type structure and Tag. (08 Marks)
c. Explain TLV Encoding structure and MACROS. (08 Marks)

Module-3

- 5 a. With a neat diagram, explain Internet documents. (10 Marks)
b. Explain the System Overview of SNMP Network Management Architecture. (10 Marks)

OR

- 6 a. Explain RMON1 Textual Conventions and RMON1 Groups and functions with diagram. (08 Marks)
b. Explain the relationship between Control and Data tables with diagram. (04 Marks)
c. Explain ATM Remote Monitoring. (08 Marks)

Module-4

- 7 a. With a neat diagram, explain the HFC Network. (08 Marks)
b. Write a note on Broadband LAN Architecture. (04 Marks)
c. With a neat sketch, explain Data Over Cable Reference Architecture. (08 Marks)

OR

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.

- 8 a. With a neat diagram, explain a Simplified Asymmetric Digital Subscriber Access Network. (08 Marks)
- b. Describe the Architecture of ADSL and Role of ADSL in Overall Network. (08 Marks)
- c. Specify and explain the ADSL Channeling Schemes. (04 Marks)

Module-5

- 9 a. Write a note on Fault Management. (06 Marks)
- b. With a neat diagram, explain Rule Based Reasoning. (06 Marks)
- c. With a neat diagram, explain CRITTER Architecture. (08 Marks)

OR

- 10 a. With a neat diagram, explain Authentication Server. (04 Marks)
- b. Write a note on Ticket Granting System. (05 Marks)
- c. Explain Security Breaches and Resources needed to prevent them and explain Secret key and Public key Cryptography Techniques. (11 Marks)

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