

CSOCIETY

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CBCS SCHEME

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15CS833

Eight semester B.E. Degree Examination, June/July 2019 Network Management

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. What are the challenges of Managing Network? Explain the use of NMS and why? (05 Marks)
- b. What is Network Management? With neat diagram, explain network management functional groupings. (06 Marks)
- c. Explain Network Management Dumbbell Architecture, with neat diagram. (05 Marks)

OR

- 2 a. List and briefly explain the salient features of different Network Management models. (08 Marks)
- b. With block diagram, explain ASN. I datatype structure and tags. Give example. (05 Marks)
- c. Explain TLV encoding structure with values of class bits. (03 Marks)

Module-2

- 3 a. What is Management Information base? Explain MIB module structure. (05 Marks)
- b. Explain in brief with neat diagram, two tier, three tier and proxy server SNMP organization model. (06 Marks)
- c. Explain SNMP Network Management Architecture, with neat diagram. (05 Marks)

OR

- 4 a. What is SNMP Community? Explain SNMP community profile and Access policy. (06 Marks)
- b. What is Interface group? Explain with example. (05 Marks)
- c. Explain ICMP group, with neat diagram. (05 Marks)

Module-3

- 5 a. What is Remote Monitoring? With a figure, explain use of RMON probe. (06 Marks)
- b. Explain RMON1 groups and its functions in detail. (05 Marks)
- c. Explain four broad band access technology with example. (05 Marks)

OR

- 6 a. Explain SNMP operation with details. (06 Marks)
- b. Explain RMON, management information base with details. (05 Marks)
- c. Explain Data over cable system reference Architecture. (05 Marks)

Module-4

- 7 a. Briefly explain HFC Technology, with neat block diagram. (06 Marks)
- b. What is CMTS? Briefly explain with example. (05 Marks)
- c. Explain 5 layers Architecture of Network Management, with neat diagram. (05 Marks)

OR

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- 8 a. What is ADSL Technology? Briefly explain simplified ADSL access network with example. (06 Marks)
- h. Briefly explain the role of ADSL access Network in an overall Network with details. (06 Marks)
- c. What is SNMPV3 security? Explain conceptualized representation of SNMP secure communication. (04 Marks)

Module-5

- 9 a. Briefly explain ADSL Fault Management with example. (08 Marks)
- b. What is Event Correlation? Explain case based reasoning in detail with necessary diagram. (08 Marks)

OR

- 10 a. Write a note on different Authentication system in client server environment. (08 Marks)
- b. What is Privacy Enhanced Mail (PEM)? Briefly PEM process, with neat block diagram. (08 Marks)

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