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10CS/IS834

Eighth Semester B.E. Degree Examination, Dec.2016/Jan.2017
Network Management Systems

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART – A

- 1
 - a. Define Network Management. Explain Network Management goal and functions of Network Operations as defined by ISO. (10 Marks)
 - b. Briefly discuss some common Network problems. (05 Marks)
 - c. What are the challenges of information technology managers in managing the network? (05 Marks)
- 2
 - a. Explain the different Network Management standards. (08 Marks)
 - b. What is Basic Encoding rule? Explain. Using basic encoding rule, encode the data defined as OCTET STRING (UNIVERSAL 4) of a value "0 C1B" H. (06 Marks)
 - c. What is Managed Object? Explain managed object perspectives with reference to OSI perspective. (06 Marks)
- 3
 - a. Explain clearly the functions of Two – tier and Three – tier SNMP organization model. (10 Marks)
 - b. Explain the classification of SNMP ASN.1 data types, with a neat diagram. (06 Marks)
 - c. Write a note on structure of managed objects. (04 Marks)
- 4
 - a. Define and explain SNMP access policy in SNMP management. (10 Marks)
 - b. Explain various SNMP operations. (10 Marks)

PART – B

- 5
 - a. What is Remote monitoring? Explain the relationship between control and data tables. (10 Marks)
 - b. Explain clearly the RMON TOKEN ring MIB groups and its functions. (10 Marks)
- 6
 - a. Explain the five important concepts of ATM Technology. (10 Marks)
 - b. Explain the ATM Network Reference Model. (06 Marks)
 - c. Discuss the generic troubles in ATM Network elements. (04 Marks)
- 7
 - a. What is Broadband Access Network? Explain. (08 Marks)
 - b. Explain ADSL line encoding scheme. (06 Marks)
 - c. Explain the ADSL fault management. (06 Marks)
- 8
 - a. Explain the Rule based Reasoning and Model based reasoning correlation techniques used to Isolate and Localize faults in Network. (10 Marks)
 - b. Discuss the requirement of Cryptography. (05 Marks)
 - c. Explain the classification of reports in Report Management. (05 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.