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Eighth Semester B.E. Degree Examination, June/July 2015

Network Management Systems

Time: 3 hrs.

Max. Marks: 100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART – A

- 1 a. Define Network Management? Explain Network management goals and functions as defined by ISO. (10 Marks)
b. Explain IBM system network architecture model. (06 Marks)
c. What are the limitations of current network management system? (04 Marks)
- 2 a. Explain the different perspectives of managed objects with examples. (10 Marks)
b. What is basic encoding rule (BER)? Explain. Using BER encode the data in TLV format defined as OBJECT IDENTIFIER (UNIVERSAL 6) of a value {43 6 1}. (05 Marks)
c. Discuss the salient features of various network management standards. (05 Marks)
- 3 a. With a neat diagram, explain SNMP network management architecture. (10 Marks)
b. What are the different defined data types in SNMP? Briefly explain their usage. (06 Marks)
c. Explain SNMP proxy server organization model. (04 Marks)
- 4 a. Discuss any three MIB – Groups in detail. (10 Marks)
b. Define and explain SNMP access policies in SNMP management. (10 Marks)

PART – B

- 5 a. With a neat sketch, explain the RMON1 groups and functions. (10 Marks)
b. Explain clearly the RMON token ring groups and its Tables. (10 Marks)
- 6 a. Explain the virtual path – virtual circuit with an example. (08 Marks)
b. Describe M₄ interface. (06 Marks)
c. Discuss the generic troubles in ATM network elements. (06 Marks)
- 7 a. Describe ADSL encoding and ADSL channeling schemes. (10 Marks)
b. Explain the rule based reasoning and model based reasoning correlation techniques used to isolate and localize faults in network. (10 Marks)
- 8 Write short notes on
a. Fault management
b. Policy management
c. Security management
d. Performance management. (20 Marks)

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Important Note : 1. On completing your answers, carefully draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, applicant to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.