

Code No: K1222/R07

Set No. 1

IV B.Tech II Semester Regular Examinations, Apr/May 2013
NETWORK MANAGEMENT SYSTEMS
(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Gigabit Ethernet using CSMA/CD is specified to have a 100-meter drop cable. Show that this corresponds to a slot time of 512 bytes to detect collision. Assume a repeater delay of two microseconds. [16]
2. (a) Describe about the entites that are involved in the system group?
(b) Explain about the entities that are involved in the interfaces Groups? [8+8]
3. Explain the Get and Set type PDUs and PDU ASN.I. [16]
4. Explain the SNMPv2 conformance statements with suitable example. [16]
5. (a) Explain the different alarms and events generated by filters of RMON1.
(b) List the various groups that are applicable to the Ethernet LAN. [8+8]
6. (a) Give brief explanation of OSI information model and SNMP model.
(b) Explain about TMN service interfaces. [8+8]
7. (a) The bit error rate tester has been used for long time as a network test tool that can test bit error rate and block error rate. Justify?
(b) List and explain the different network status tools. [10+6]
8. (a) List and explain the various components of web based enterprise management.
(b) Give brief description about CIMOM. [10+6]

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1. Describe in detail about Network Management Dumbbell Architecture and Network Management Components. [16]
2. What OBJECT TYPE would you use to identify the address of the neighboring gateway from your local gateway? [16]
3. An SNMP manager sends a request for the values of the sysUpTime in the System group and ifType in the interfaces group for ifNumber value of 3. write the PDUs with the fields in for
 - (a) the get-request PDU, and
 - (b) the get-response PDU with noSuchName error messages for ifType. [16]
4. What are agent capabilities? Give the skeleton of Agent capabilities macro and explain it with the help of an example. [16]
5. Write short notes on the following:
 - (a) History Group.
 - (b) Alarm Group.
 - (c) Filter Group.
 - (d) Host Group. [16]
6.
 - (a) Give the complete list of the services provided by TMN.
 - (b) Give the functions of system management functional areas. [8+8]
7.
 - (a) Give the explanation about the commands that are used for obtaining the addresses and domain names of the servers.
 - (b) Write short notes on ping. [10+6]
8.
 - (a) Explain the simplified WBEM CIM core model.
 - (b) Give brief description about CIMOM. [6+10]

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Set No. 3

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Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
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1. Explain broadband ISDN and narrowband ISDN with suitable example. [16]
2. What is SNMP management? Explain the compact of adding network management to managed nodes? [16]
3. (a) Describe the architecture of SNMP in detail.
(b) What does the community of SNMP involve? Explain then in detail. [8+8]
4. Describe the following in detail:
 - (a) The SNMP Bilingual Manager
 - (b) The SNMP Proxy server. [16]
5. (a) Explain with a neat diagram network configuration with RMON.
(b) Explain the RMON1 Textual Conventions. [10+6]
6. Explain in detail the TMN architecture. [16]
7. (a) Explain the different SNMP MIB tools with example.
(b) What is the use of protocol analyzer. Explain the basic configuration of protocol analyzer. [8+8]
8. (a) Explain the implementation of web server on NMS platform.
(b) Briefly explain the embedded web based management. [8+8]

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1. Explain SNA, OSI and Internet protocol layer models and list the differences. [16]
2. TCP is a connection-oriented protocol and UDP is a connectionless protocol. Identify the differences in the two MIBs that exemplify this difference. [16]
3. Explain the SNMP GetRequest operation for the MIB. [16]
4. Explain about one of the important textual conventions that is used for creation & deletion of conceptual rows? [16]
5. (a) Explain the various functions associated with RMON1 MIB.
(b) Draw the diagram showing network configuration with RMONs. Explain. [8+8]
6. Explain the TMN conceptual model with neat diagrams. [16]
7. (a) What are the different categories of network management? Explain.
(b) Give brief description about traceroute tool. [10+6]
8. (a) Explain the implementation of web server on NMS platform.
(b) Briefly explain the embedded web based management. [8+8]
