

Code No: 07A81202

R07**Set No. 2**

IV B.Tech II Semester Examinations, APRIL 2011
NETWORK MANAGEMENT SYSTEMS
Information Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain the data gathering module in RMON1.
(b) Describe briefly about functions and tables related to network layer matrix and application level matrix group of RMON2 MIB. [8+8]
2. What are objects - identifications? Explain the differences between modules identity macro and objects identity macro with an example. [16]
3. Define ranged object, also explain the conceptual views of a managed object. [16]
4. Draw the MIB tree for the SNMP group and explain entities. [16]
5. (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]
6. (a) Explain the operations system for testing transmission with a neat diagram.
(b) Discuss the operations system for testing transmission.
(c) Explain the trunk systems of TMN model. [6+6+4]
7. You are given a class B IP address of 145.45.x.y for your network node. As a network engineer, you are asked to configure your network for 126 subnets (Remember that 0 and 1 are reserved).
(a) How would you configure your address for subnets and hosts?
(b) What is the maximum number of hosts that each subnet can accommodate? [8+8]
8. (a) With the help of a flow diagram, illustrate how MBeans are accessed.
(b) Write the differences between CIM managed objects and DMI managed objects. [10+6]

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1. (a) With the help of a neat diagram explain the WM1 architecture.
(b) Explain briefly about Desktop management interface block diagram. [8+8]
2. Explain current status and future of Network Management. [16]
3. Explain the evolution of internet Management documents related to SNMPv1? [16]
4. What are the operations of SNMP? Also explain about the genetic map's involved. [16]
5. (a) Describe briefly about functions and tables that are related to network layer matrix and application level matrix group of RMON2 MIB.
(b) Explain the different alarms and events generated by filters of RMON1. [8+8]
6. (a) Mention the reasons for using operations system for Traffic Measurement.
(b) Discuss the operations system for testing transmission.
(c) List the advantages of TMN. [6+6+4]
7. What are the different network statistics measurement systems? Explain them in detail. [16]
8. Generate an ASN.1 OBJECT-GROUP macro for the address translation group in SNMPv2 implementation. [16]

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R07**Set No. 1**

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1. What is meant by MIB (Management Information Base). Give the genetic representation of range information. [16]
2. Give brief description about the following:
 - (a) Core application services.
 - (b) Functional components
 - (c) tcpdump. [4+6+6]
3. (a) Give brief description about DMI's MIB.
 (b) What are the standards that are available for managing of Management Application? [8+8]
4. (a) Compare the functionalities of TMN functional architecture and TMN Physical architecture.
 (b) Discuss about the Implementation Issues of TMN. [10+6]
5. Describe the SNMPv2 Network Management Architecture on Multiple Transport Domains. [16]
6. (a) What enhancements are made to RMON2 MIB Group? Explain.
 (b) Explain the new data types defined in RMON1 textual conventions. [8+8]
7. 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]
8. 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]

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R07**Set No. 3**

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1. Describe the SNMP network management architecture with the help of a neat diagram. [16]
2. Explain the TMN conceptual model with neat diagrams. [16]
3. (a) What are the advantages of using CIM in WBEM.
 (b) List and explain the various components of web based enterprise management. [6+10]
4. Explain case histories of networking and management. [16]
5. What are agent capabilities? Give the skeleton of Agent capabilities macro and explain it with the help of an example. [16]
6. (a) Explain the RMON MIB framework for the extensions, as portrayed by the ATM Forum.
 (b) Draw the different perspectives of ATM RMON. [8+8]
7. Explain in detail the basic software tools that aid in obtaining network parameters or diagnosing network problem. [16]
8. The following data response information is received by the manager for a get-request with a varBindlist. Compose: [16]
 - (a) the get-request PDU, and
 - (b) the get-response PDU.

Object	Value
Error Status	Too big
Error Index	udpInErrors
udpInDatagrams	500,000
udpNoPorts	1,000
udpInErrors	5,000
udpOutDatagrams	300,000
