Code No: 07A70501 | **R07** | **Set No. 2**

IV B.Tech I Semester Examinations,December 2011
NETWORK MANAGEMENT SYSTEMS
Common to Computer Science And Engineering, Electronics And Communication Engineering

Time: 3 hours   Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
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1. Explain in detail the TMN architecture.   [16]

2. What are the functions of network operations? Explain the OSI network management applications.   [16]

3. (a) Give brief description about enterprise management solutions.
   (b) Explain the low-end system management.   [10+6]

4. Explain the SNMP GetNextRequest-PDU operation for a System Group with suitable example.   [16]

5. (a) Explain the changes made to the system group as well as SNMP group in SMPv2:
   (b) Describe the folowing with a suitable examples:
       i. SNMP trap (4)
       ii. SNMP trap(5)
       iii. SNMP trap(6).   [8+8]

6. (a) Give brief description about protocol directory group and protocol distribution group of RMON2 MIB.
   (b) Explain the application layer functions of RMON2 MIB.
   (c) Discuss briefly about TokenRing statistics of RMON1.   [8+4+4]

7. (a) Explain the functional block diagram of DMI 2.0.
   (b) Explain any commercial network product for EWM.   [10+6]

8. Write object DESCRIPTOR and syntax of the following SNMP managed entities:
   (a) IP address.
   (b) A row in the Interfaces table (the row specifications only, not the objects in the row).
   (c) The MAC address of an interface card.   [16]

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Code No: 07A70501 | **R07** | **Set No. 4**

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Common to Computer Science And Engineering, Electronics And
Communication Engineering

Time: 3 hours　　　　　　　　　　　　　　　　　　　　　Max Marks: 80
Answer any FIVE Questions
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1. Explain the importance of topology with a case history. [16]

2. Write short notes of:

   (a) Integrated view of TMN.

   (b) Implementation Issues of TMN. [8+8]

3. In detail explain the web based enterprise management. [16]

4. Explain how the SNMP NMS acquires address information by considering an case history. [16]

5. What is an information module? Give an example of SNMP group that includes conference information as well as compliance statements? [16]

6. Explain with a neat diagram the ATM Remote Monitoring. [16]

7. 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]

8. (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) Give a brief note on the two well - known low - end system management products. [10+6]

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R07

Set No. 1

IV B.Tech I Semester Examinations,December 2011
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Time: 3 hours   Max Marks: 80

Answer any FIVE Questions
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1. (a) With the help of a flow diagram , illustrate how MBeans are accessed.

   (b) Discuss in short about the web interface to SNMP management.   [10+6]

2. (a) List and explain the different network status tools.

   (b) List and Explain the different network traffic monitoring tools.   [6+10]

3. Explain in detail the TMN standards.   [16]

4. (a) Explain about proxy server organization model.

   (b) How does an NMS behave as both manager as well as an agent? Explain.

   [8+8]

5. (a) Give brief description about RMON token ring extension groups.

   (b) With the help of a neat diagram explain the RMON1 groups and functions.

   [8+8]

6. Describe the SNMPv2 Network Management Architecture on Multiple Transport Domains.   [16]

7. The following data response information is received by the manager for a get-request with a varBindlist. Compose:

   (a) the get-request PDU, and

   (b) the get-response PDU.   [16]

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

8. Draw a network configuration and the protocol-layer interface architecture for a multiprotocol bridge that connects an Ethernet LAN and token-ring LAN.   [16]

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R07

Set No. 3

IV B.Tech I Semester Examinations,December 2011
NETWORK MANAGEMENT SYSTEMS
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Communication Engineering

Time: 3 hours   Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
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1. (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]

2. Explain current status and future of Network Management.   [16]

3. (a) Explain about the administrative model of internet management.
   (b) Describe about the SNMP access policy in detail.   [8+8]

4. (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]

5. Explain in detail the JMX architecture.   [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. Describe the following in detail:
   (a) Conformance information in SNMPv2
   (b) Expanded Internet MIB-II.   [16]

8. A network management system is a powerful tool, but it could also bring your network down if it is not managed. Explain.   [16]

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