

Code No: 07A7EC25

**R07****Set No. 2****IV B.Tech I Semester Examinations, November 2010****NETWORK MANAGEMENT SYSTEMS****Computer Science And Engineering****Time: 3 hours****Max Marks: 80****Answer any FIVE Questions****All Questions carry equal marks**

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1. (a) What are the different RMON1 common and Ethernet groups? Explain.  
(b) Explain the token ring statistics groups. [10+6]
2. (a) List and Explain the different network traffic monitoring tools.  
(b) Give brief description about BERT. [8+8]
3. Describe the OSI protocol each layer responsibilities and services provided to its upper layer. [16]
4. (a) What are textual conventions? Compare the definitions of a type in SMIV1 with SMIV2.  
(b) Explain about the ASN.1 constructs for appending space table. [8+8]
5. (a) Give brief description about the Physical architecture of TMN.  
(b) Classify and explain about OSI system management functional area. [6+10]
6. What are the different levels in JMX architecture? Explain them in detail. [16]
7. A network manager discover that a network components is performing poorly and issues an order to the technician to replace it. Which MIB group contains this information for the technician to find out the physical location of the component? Explain. [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. 4****IV B.Tech I Semester Examinations, November 2010****NETWORK MANAGEMENT SYSTEMS****Computer Science And Engineering****Time: 3 hours****Max Marks: 80**

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1. Describe in detail protocol Layers and Services provided to the upper layer. [16]
2. What are Notification Definitions? Explain the Notification type macro the help of an example. [16]
3. Explain in detail about SNMP management from a system point of view. [16]
4. What is protocol entities? Explain about the encapsulated SNMP message in detail. [16]
5. (a) Explain briefly about system management.  
(b) Write short notes on CA unicenter TNG frame work [10+6]
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) 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]
8. (a) Illustrate with the help of example the essential role of Operations systems in the TMN model.  
(b) Explain the trunk systems of TMN model.  
(c) List the various TMN documents. [8+4+4]

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**R07****Set No. 1****IV B.Tech I Semester Examinations, November 2010****NETWORK MANAGEMENT SYSTEMS****Computer Science And Engineering****Time: 3 hours****Max Marks: 80**

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1. (a) Explain different layers present in TMN conceptual model.  
 (b) Explain about the operations system for traffic measurement. [8+8]
2. (a) Give brief description about DMI infrastructure.  
 (b) Explain how an embedded agent is configured on Hewlett-Packard. [8+8]
3. (a) List and explain the different network status tools.  
 (b) List and Explain the different network traffic monitoring tools. [6+10]
4. (a) What is the use of filter group of RMON1? Explain the various filters present in RMON1.  
 (b) Explain the application layer functions of RMON2 MIB.  
 (c) Discuss briefly about TokenRing statistics of RMON1. [8+4+4]
5. Draw the MIB tree for the SNMP group and explain entities. [16]
6. Describe the following in detail:  
 (a) Changes to the system group in SNMPv2  
 (b) Changes to the SNMP group in SNMPv2. [16]
7. Explain the following:  
 (a) IRTF, IETF  
 (b) Inter NIC  
 (c) IANA. [16]
8. The E-mail sent is based on client/server architecture. Send an E-mail to a wrong node address. Explain the error messages that you get and the servers that sent them. [16]

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**R07****Set No. 3****IV B.Tech I Semester Examinations, November 2010****NETWORK MANAGEMENT SYSTEMS****Computer Science And Engineering****Time: 3 hours****Max Marks: 80**

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1. Describe the SNMP GetNextRequest with indices. [16]
2. (a) Explain, how DMI managed objects are managed by the SNMP managers.  
(b) Explain the manager level of JMX architecture. [8+8]
3. Explain the following:  
(a) get-request  
(b) get-next-request  
(c) get-response  
(d) trap. [16]
4. What is an information module? Give an example of SNMP group that includes conference information as well as compliance statements? [16]
5. (a) Explain the use of traffic load monitoring.  
(b) Give brief description about protocol analyzer with RMON.  
(c) What are different network routing tools? Explain. [6+6+4]
6. Explain the decimal notation in representing the classes of IPv4 addresses. Give an example for each. [16]
7. (a) Explain the various common and Ethernet groups present in RMON1.  
(b) Discuss how data and control tables work together by using the matrix group. [8+8]
8. (a) Summarize the scope of the TMN recommendations.  
(b) Explain the different types of TMN telecommunications resources.  
(c) Illustrate the use of TMN standards. [8+4+4]

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