

Code No: M0524/R07

**Set No. 1**

**IV B.Tech I Semester Supplementary Examinations, Feb/Mar 2011**  
**NETWORK MANAGEMENT SYSTEMS**  
 ( Common to Computer Science & Engineering and Computer Science &  
 Systems Engineering)

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. Explain the importance of topology with a case history? [16]
2. FDDI is heavily used as a backbone network in a corporate complex:
  - (a) Draw a MIB tree for FDDI MIB. Limit your tree to the top five groups.
  - (b) Develop a three-column table presenting entity, OID, and brief descriptions of the groups and the tables under each group. [16]
3. Explain the SNMP GetRequest operation for the MIB. [16]
4. What are agent capabilities? Give the skeleton of Agent capabilities macro and explain it with the help of an example. [16]
5. (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]
6. Write short notes on the following.
  - (a) TMN operations systems functions.
  - (b) TMN interfaces.
  - (c) service management layer of TMN.
  - (d) Implementation of TMN by using OMNI point. [4×4 =16]
7. Explain the following:
  - (a) getethers
  - (b) etherfind
  - (c) snoop
  - (d) tcpdump
  - (e) iptrace. [3+3+3+4+3]
8. Write short notes on the following:
  - (a) protocol adapters.

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- (b) CIM object manager.
- (c) web client.
- (d) Management information base for desktop management interface. [4×4]

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FirstRanker

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**Set No. 2**

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1. What are the challenges in managing the network? Explain. [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 SNMP GetNextRequest operation for the MIB with suitable example. [16]
4. Write briefly about SMI definition for SNMPv2 and Information Modules. [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) Draw the architecture of solstice enterprise manager and explain about it.  
(b) Discuss how a protocol analyzer monitors the networ. [8+8]
8. In detail explain the web based enterprise management. [16]

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**Set No. 3**

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1. Explain broadband ISDN and narrowband ISDN with suitable example. [16]
2. Explain in detail about the network management standards. [16]
3. Explain the SNMP GetRequest-PDU operation for a System Group with neat diagram. [16]
4. Describe the data structure of SNMPv2 PDUs with generic PDU message structure. [16]
5. Write short notes on the following:
  - (a) History Group.
  - (b) Alarm Group.
  - (c) Filter Group.
  - (d) Host Group. [16]
6. (a) Explain the physical architecture of a TMN with a neat diagram.  
(b) Give brief description about TMN management services. [8+8]
7. (a) Draw the architecture of solstice enterprise manager and explain about it.  
(b) Discuss how a protocol analyzer monitors the network. [8+8]
8. (a) Explain the functional block diagram of DMI 2.0.  
(b) Explain any commercial network product for EWM. [10+6]

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**Set No. 4**

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**Time: 3 hours**

**Max Marks: 80**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. (a) List the differences between OSI and TCP/IP reference model.  
(b) Explain the OSI communication architecture. [8+8]
2. A network management system is a powerful tool, but it could also bring your network down if it is not managed. Explain. [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. Present the changes to the Internet MIB and their relationships of the SNMPv2 with neat diagram. [16]
5. (a) What is the use of port select group in ATM RMON? Explain the different tables involved in it.  
(b) With a neat diagram explain the RMON2 conformance specifications. [8+8]
6. (a) Explain about TMN service interfaces.  
(b) Give the complete list of the services provided by TMN. [8+8]
7. (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]
8. (a) What are the advantages of using web Servers over SNMP agents?  
(b) Give brief description of using web interface to SNMP management. [6+10]

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