CS-7101

B. E. (Seventh Semester)
EXAMINATION, Dec., 2011
(Computer Science & Engg. Branch)
NETWORK MANAGEMENT
(Elective—I)
(CS—7101)

Time : Three Hours
Maximum Marks : 100
Minimum Pass Marks : 35

Note : Attempt any *five* questions. All questions carry equal marks.

1. (a) Explain the functional groupings of network management. Discuss with the help of functional flow-chart.   10

   (b) Explain the functions of security management.   10

2. (a) What do you mean by network management ? What are the concepts and goals behind SNMP architecture ?   10

   (b) Describe various categories of information in the Management Information Base (MIB).   10

3. (a) Explain the architecture of Desktop Management Interface (DMI).   10

   (b) Define the structure of management information. What are the data types allowed by SMI ?   10

4. (a) Explain IP routing and IP addressing with suitable example. 10

(b) Compare IPv4 and IPv6. 10

5. (a) Describe the ARP cache and ARP packet format. 10

(b) Write a short note on RARP server design. 10

6. (a) Briefly describe the term OSPF (Open Shortest Path First). Give its features that make it superior to RIP. 10

(b) Discuss CIDR (Classless Inter Domain Routing). What are the features of CIDR ? 10

7. (a) Explain the following ICMP message types : 10
   (i) ICMP address mask request and reply
   (ii) ICMP timestamp request and reply
   (iii) ICMP echo request and reply

(b) What is Network File System ? How is it implemented ? 10

8. Write short notes on any *four* of the following : 5 each
   (i) IGMP
   (ii) Virtual Private Network
   (iii) Remote Monitoring
   (iv) Fault Management
   (v) Network Address Translation (NAT)

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