

**IV B.Tech I Semester Regular Examinations, November 2005**

**NETWORK ADMINISTRATION**

**(Computer Science & Systems Engineering)**

**Time: 3 hours**

**Max Marks: 80**

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

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1. (a) Write about the different “Network file system models” [5]  
(b) State the differences between AFS and NFS [6]  
(c) Name services in Unix Operating System that supports Network File System. [5]
2. (a) What are the steps involved when “compilation fails”. [8]  
(b) Define the following terms in details. [8]
  - i. swap space
  - ii. Grub and LILO
3. Explain different issues of user management [16]
4. (a) What are the various evolutionary versions of SNMP. Explain. [6]  
(b) What are the disadvantages of SNMP? [6]  
(c) How devices and clusters are monitored in SNMP? [4]
5. (a) Explain the measures to identify faults in networks. [8]  
(b) Define causality - dependency. [4]  
(c) Define fault report, fault diagnosis. [4]
6. Explain issues that are involved in installing a new service on Linux and Windows. [16]
7. Explain elements should you have in a security and recovery plan. [16]
8. (a) Explain how complex systems are analyzed. [ 8]  
(b) How evaluation of hierarchical system is simulated. [4]  
(c) Write about various options to perform experimental studies in evaluating hierarchical system. [4]

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1. (a) Write about the hierarchical file system structure of Unix. [10]  
(b) What is a link? How many types of links are in Unix? [3]  
(c) Write about file access control in Unix. [3]
2. (a) What are the fundamental operations performed on the host. Explain. [8]  
(b) State the fundamental operations with the illustration of any two operating systems. [8]
3. Discuss the issues of centralizing passwords with respect to local and networked accounts. [16]
4. (a) What models can address the uniformity of revision control. [6]  
(b) Explain reliability factors for a new infrastructure. [8]  
(c) Define immunology. [2]
5. (a) Predictability of configuration is both advantageous and disadvantageous. Explain. [8]  
(b) Write about the selection of nodes in the configuration management [6]  
(c) Write about "Random scheduling". [2]
6. How do system5init, BSDinit, inetd configuration services work in summoning daemons. [16]
7. (a) What are the various steps to follow to protect against attacks in network.[8]  
(b) What is the significance of port scanning? Explain. [6]  
(c) Define secure IP. [2]
8. (a) Explain how complex systems are analyzed. [ 8]  
(b) How evaluation of hierarchical system is simulated. [4]  
(c) Write about various options to perform experimental studies in evaluating hierarchical system. [4]

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1. (a) Explain the following:
  - i. Access Control List
  - ii. File Access Control[4]
- (b) How are files shared between users in Unix? [6]
- (c) How are files shared between computers in Windows? [6]
2. (a) Define the terms [8]
  - i. free software
  - ii. proprietary software
  - iii. shared libraries
  - iv. software patches
- (b) What are the exceptions involved in configuring security. Explain. [8]
3. (a) Explain how to maintain accounts in Unix and Windows. [12]
- (b) How to create groups in windows flavor of operating systems? [4]
4. (a) Write the model checklist of testing the system administration. [8]
- (b) Explain the pros and cons of manual administration. [8]
5. (a) Explain the purpose of randomized topological sorting algorithm during system configuration. [8]
- (b) Justify the need of variable configuration. [6]
- (c) Define Randomization. [2]
6. (a) Explain the process of configuring the DNS name service [8]
- (b) Explain the process of configuring the email. [8]
7. (a) What are the various steps to follow to protect against attacks in network. [8]
- (b) What is the significance of port scanning? Explain. [6]
- (c) Define secure IP. [2]
8. (a) Explain how complex systems are analyzed. [ 8]
- (b) How evaluation of hierarchical system is simulated. [4]
- (c) Write about various options to perform experimental studies in evaluating hierarchical system. [4]

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1. (a) What are the common constraints on Mac OS infrastructure [6]  
(b) How the restrictions of "constraints on infrastructure" on the server hosts are resolved. [6]  
(c) Define user behavior. [4]
2. (a) What are the steps involved when "compilation fails". [8]  
(b) Define the following terms in details. [8]
  - i. swap space
  - ii. Grub and LILO
3. (a) What is meant by garbage collection of user files? [4]  
(b) What are the healthy risks in using a computer system? [4]  
(c) What is meant by user quota? Why is it used for? [4]  
(d) What is meant by distributed account? [2]  
(e) What is meant by user shell? [2]
4. (a) Write the model checklist of testing the system administration. [8]  
(b) Explain the pros and cons of manual administration. [8]
5. (a) What are the disadvantages of administration automation? [8]  
(b) How cloning of systems will help in prospective system administration? [8]
6. Write short notes on [16]
  - (a) system5init
  - (b) BSDinit
  - (c) binding to sockets
  - (d) TCP wrapper security
7. (a) How do proxies work? Explain. [8]  
(b) Write about various performance aspects of proxies. [8]
8. (a) Explain how complex systems are analyzed. [ 8]  
(b) How evaluation of hierarchical system is simulated. [4]  
(c) Write about various options to perform experimental studies in evaluating hierarchical system. [4]

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