

SECTION - D

8. (a) What do you mean by Denial of service (DOS) Attacks ? How these attacks can be detected and prevented ? Explain. 10
- (b) What is security planning ? Explain various categories of security such as C1, C2, C3, C4 in detail. 10
9. (a) Write a shell program that tells whether the number entered through the keyboard is odd or even. 10
- (b) What is shell scripting ? What are the features of Python Scripting ? How Python scripting is different from shell scripting ? 10

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Roll No.

24467

B. Tech. 7th Semester (IT) Examination – December, 2016 SYSTEMS & NETWORK ADMINISTRATION

Paper: IT-403-F

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : First question is compulsory. Attempt any five questions taking at least one question from each section. All questions carry equal marks.

1. (a) What a log ? 10 × 2 = 20
- (b) What is UFS ?
- (c) What do you mean by Cloning of systems ?
- (d) What is open source software ?
- (e) What is system sharing ?
- (f) What is fixed masks ?

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- (g) What is Radius ?
- (h) What is the purpose of ping command ?
- (i) What is firewall ?
- (j) What is Wrapper ?

SECTION - A

2. (a) Compare and contrast NFS and NTFS file system in detail. 10
- (b) What do you mean by system performance tuning ? Why it is required ? How the performance of system can be improved ? 10
3. (a) Differentiate between UNIX and Windows operating system on the basis of performance, file system, processes and security. 10
- (b) How the creation of privileged and user accounts helps in providing the security ? How user accounts are different from group accounts ? 10

SECTION - B

4. (a) Explain the various steps during installation and configuration of device drivers in UNIX. 10

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- (b) How authentication and passwords are maintained in UNIX ? Explain in detail. 10
- 5. (a) What is kernel customization ? Explain the process of integrating multiple operating systems in a computer. 10
- (b) What is a File System ? How a file system can be repaired ? Also explain the backup and restoration of file system in detail. 10

SECTION - C

6. (a) What is the purpose of routing protocols ? Explain Network Address Translation (NAT) protocol in detail. 10
- (b) What is DNS server ? Explain the complete process of configuring a DNS Server. 10
7. (a) Explain the IP Addressing and Subnetting in detail by giving suitable examples. 10
- (b) What is Static and Dynamic Routing ? What are the advantages of dynamic routing ? How dynamic routing is different from static routing ? 10

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