

Roll No. ....

**23076**

**M. Tech. 3rd Sem. (Computer Engg.)**

**Examination – December, 2014**

**SYSTEM AND NETWORK ADMINISTRATION**

**Paper : MTCE - 705 - A**

***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 :*** The students have to attempt question 1, which is ***compulsory***, and ***one*** question from each of the ***four*** sections.

1. (a) What is scope of system and network administration ? 5
- (b) Discuss about security and its needs. 5
- (c) What are various issues for system performance ? 5
- (d) What do role of scripts in network administration ? 5

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## SECTION - A

2. (a) What is TCP/IP model ? What is need of layered model ? 10
- (b) Explain about concept of addressing and subnetting ? Discuss their functions. 10
3. (a) How network commands works ? Explain ping command in details. 10
- (b) What are various servers ? Also compare them. 10

## SECTION - B

4. (a) Discuss about various type of attacks. 10
- (b) What is private key cryptography ? How DES algorithm works ? 10
5. (a) What is Firewall ? Explain various types of firewalls and their uses. 10
- (b) Describe about IPSec and its modes with their utilities. 10

## SECTION - C

6. (a) What is file system ? Also discuss FAT and NTFS in details. 10
- (b) How booting process is done in OS ? Discuss its use also. 10
7. (a) Write the steps for configuring proxy server in details. 10
- (b) What is account and their types ? Also discuss concept of passwords. 10

## SECTION - D

8. (a) Write 10 commands of unix and their options available. 10
- (b) What is shell script ? Discuss structure of shell script with help of suitable example. 10
9. Write short notes on the following :
- (a) AWK Scripting 10
- (b) Network based commands 10
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