

Roll No.

23076

**M.Tech 3rd Semester
Computer Engg. Examination-
January, 2013**

System and Network Administration

Paper MTCE-705-A

Time : 3 hours

Max. 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 the examination.

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

1. (i) What do you mean by TCP/IP model.

Explain in detail with proper diagram.

10

- (ii) What do you mean by Mail Server. Also explain their respective Configuration Setting. 10
2. (i) Explain the different Inter-connecting devices in detail. 10
- (ii) What do you mean by Network Address Translation. Also explain the NAT operation. 10
3. Explain the following : 20
- (i) DNS
 - (ii) Web Server
 - (iii) Proxy Server

4. (i) What do you mean by Authorization and Authentication. Explain in detail the Authentication algorithms. 10
- (ii) What do you mean by Access Control list. Explain in detail. 10
5. (i) What do you mean by Cryptography. Also explain in detail the Cryptography techniques. 10
- (ii) Give a brief description about Digital Signatures. 10
6. (a) Explain the following : 10
- (i) User Account
- (ii) Group Account
- (iii) Pass words

(b) Explain how to improve the systems performance. 10

7. (i) What do you mean by AWK. Explain in detail. 10

(ii) What do you mean by UNIX Operating System. Explain in detail. 10

8. Explain the following :

(i) FAT, NTFS

(ii) IDS

(iii) Perl

(iv) Shell scripting.
