Roll No. ............................

# 24467

# B. Tech. (CS & IT) 8th Semester
# Examination – May, 2015

## SYSTEM & NETWORK ADMINISTRATION

### Paper : IT-403-F

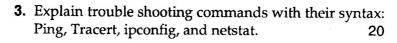*Time : Three Hours ]*      *[ Maximum Marks : 100*

*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.*
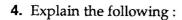
*Note :* Attempt any *five* questions. Each question carries equal marks.

1. (a) Discuss the scope and goals of system and network administration in detail.      10

   (b) Distinguish between Unix and Windows operating system in terms of file system, processes, system performance etc.      10

2. (a) Explain process of system recovery, backup and restoration.      10

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

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**3.** Explain trouble shooting commands with their syntax: Ping, Tracert, ipconfig, and netstat.  20

**4.** Explain the following :  2 × 10 = 20

   (a) Proxy server and its configuration.

   (b) DNS server and its configuration.

**5.** (a) Justify the statement "IP is an unreliable, connectionless best effort protocol."  10

   (b) What is shell scripting ? Distinguish between shell scripting and python scripting by taking suitable example.  10

**6.** What is security planning ? Explain various categories of security i.e. C1, C2, C3 and C4.  20

**7.** Describe the following :  4 × 5 = 20

   (a) NTFS

   (b) TCP/IP trouble shooting

   (c) Firewalls

   (d) Disk space allocation

**8.** Write notes on the following :  2 × 10 = 20

   (a) Kernel customization

   (b) Perl

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