

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**

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*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.*

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**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 :  $2 \times 10 = 20$
- (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 :  $4 \times 5 = 20$
- (a) NTFS
  - (b) TCP/IP trouble shooting
  - (c) Firewalls
  - (d) Disk space allocation
8. Write notes on the following :  $2 \times 10 = 20$
- (a) Kernel customization
  - (b) Perl