



K20P 1264

Reg. No. :

Name :

**III Semester Master of Computer Application (M.C.A.)/M.C.A.
(Lateral Entry) Degree (C.B.S.S. – Reg./Suppl. (Including Mercy Chance)/Imp.)
Examination, November 2020
(2014 Admission Onwards)**

MCA3C16 : SYSTEM AND NETWORK ADMINISTRATION

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **any ten** questions, **each** question carries **three** marks.

1. List out the major services in UNIX system.
2. What are the configuration status of LILO boot process ?
3. Mention the tasks of system administration.
4. What are the various file system types ? Give example for each.
5. Differentiate between Syslogd and Klogd.
6. How to use and manage the system log files ?
7. Mention the need for DHCP.
8. List the advantages of TCP over UDP.
9. Specify the role of SNMP.
10. How MIB provides better solution for network administration ?
11. Write a procedure to create process - fork() system call with example.
12. Define the terms a) socket programming b) byte operation. **(10×3=30)**

P.T.O.



SECTION – B

Answer **all** questions, **each** carries **ten** marks.

13. a) Explain the method of sharing UNIX printers. **10**
OR
b) Explain the relationship between network administration and Linux Kernel configuration. **10**
14. a) Write the basic concept used in network file system with example. **10**
OR
b) Explain in detail the system security with example. **10**
15. a) Brief the working of serial line IP (SLIP) protocol. **10**
OR
b) Sketch the network topology architecture with firewall protection. Explain the functioning of firewall. **10**
16. a) Explain the method of configuration of routing with suitable example. **10**
OR
b) Write and explain the steps used to install and configure Apache server. **10**
17. a) Discuss the various socket system calls with proper syntax specification. **10**
OR
b) Explain the concept of semaphores and message queues in system V IPC with suitable example. **10**
- (5×10=50)**