K19P 1375

Reg. No. : ....

Name : ....

III Semester Master of Computer Application (M.C.A.)/ M.C.A. Lateral Entry Degree (Reg./Suppl./Imp.) Examination, November - 2019
(2014 Admission Onwards)
MCA 3C16 : SYSTEM AND NETWORK ADMINISTRATION

Time : 3 Hours

Max. Marks : 80

SECTION - A

Answer any **TEN** questions. Each question carries **THREE** marks.

(10x3=30)

1. List out the functionalities of LILO boot process.

2. Mention the applications of startup files in Linux.

3. What is reverse zone file?

4. List the reason for sharing file system.

5. Differentiate between remote copy and remote file distribution.

6. What is IP security?

7. What is Daemon? Give example.

8. Specify the role of DNS.

9. What is the purpose of mail relay in mail services?

10. Why routing is configured?

11. What is the application of **fork ()** system call?

12. Define Inter Process Communication [IPC] with suitable figure.

P.T.O.

SECTION - B

Answer all questions, each carries ten marks. **(5x10=50)**

13. a) With a neat diagram, explain briefly Linux kernel configuration. **(10)**

(OR)

b) Briefly explain the major services in a UNIX system with example. **(10)**

14. a) Explain the network file system with suitable example. **(10)**

(OR)

b) Describe the concept of system security and system maintenance with example. **(10)**

15. a) Illustrate the different methods used to enforce webserver security and network security. **(10)**

(OR)

b) Discuss the methods for analyzing design aspects protocol problems. **(10)**

16. a) Explain different commands used for testing basic connectivity trouble shooting Network access and checking routing. **(10)**

(OR)

b) Mention the different databases of DNS. Discuss in detail the merits and demerits of DNS. **(10)**

17. a) Explain in detail the concept of IPC programming with suitable example. **(10)**

(OR)

b) Discuss the connection oriented and connectionless socket system calls with example. **(10)**

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