



K17P 0186

Reg. No. : .....

Name : .....

**Third Semester M.C.A. Degree (Regular/Suppl./Imp.) Examination,  
January 2017**

**(2014 Admn. Onwards)**

**MCA 3C 16 : SYSTEM AND NETWORK ADMINISTRATION**

Time : 3 Hours

Max. Marks : 80

**SECTION – A**

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

1. What are the major goals of Kernel ?
2. How to view the contents of file and contents of the folder ?
3. Mention the important environment variables of the multiprocessor system.
4. What are the functions of tmpwatch and logrotate commands ?
5. How to configure the network in unix system ?
6. Compare and contrast name server address and broad cast address.
7. What are the functions of netstat, ifconfig and route commands ?
8. Distinguish between primary and secondary DNS.
9. How to configure for SMTP services ?
10. What are the services of Multipurpose Internet Mail Extension (MIME) ?
11. Compare and contrast child and parent process with suitable examples.
12. What are the functions of semaphores ?

**(10×3=30)**

P.T.O.



## SECTION – B

Answer **all** questions, **each** question carries **ten** marks :

13. a) Mention the various parts of Kernel, explain the services and usage of each one briefly. 10
- OR
- b) Describe the key factors and uses of the LILO boot process and the GRUB boot process briefly. 10
14. a) Explain the system backup and restore operations using suitable commands. 10
- OR
- b) What are the design issues of the system security, explain each one with suitable commands. 10
15. a) How to configure for web services and mail services, explain suitable commands and parameters. 10
- OR
- b) List out various interface configuration of unix environment system, explain the goals, services and merits of each one. 10
16. a) Mention the importance of various DNS database, explain the merits and demerits of each one briefly. 10
- OR
- b) Explain the significance of root servers and internet root domains. 10
17. a) Explain the various events of interprocess communication with suitable commands. 10
- OR
- b) Define socket, explain various system calls of socket programming briefly. 10

(5×10=50)