



K18P 1394

Reg. No. :

Name :

**First Semester M.C.A. Degree (Reg./Suppl./Imp.)
Examination, December 2018
(2014 Admn. Onwards)
MCA 1C03 : OPERATING SYSTEMS**

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **any ten** questions. **Each** question carries **three** marks. (10×3=30)

1. List the system components and explain.
2. What are the uses of system calls ? Give any two examples.
3. Explain the concept of multithreading.
4. Define process and give example.
5. What are the criteria for the CPU scheduling ?
6. Explain Thrashing.
7. What are the merits of NFS ?
8. Mention the uses of demand paging.
9. List out the basic principles of RAID.
10. Define "STREAMS".
11. List the distinguish features of Distributed Operating Systems.
12. What are the merits of file access control ?

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SECTION – B

Answer **all** questions. **Each** question carries **ten** marks.

13. a) Discuss the structure of a typical operating system. 10
OR
b) Write a note on computer system structures. 10
14. a) What are the methods for handling deadlock? How to prevent deadlock explain briefly? 10
OR
b) What is process synchronization? Explain. 10
15. a) Discuss :
i) Free space management
ii) NFS. 10
OR
b) Write a note on virtual memory. 10
16. a) Give a detailed account of Disk scheduling and Disk structure. 10
OR
b) Discuss the I/O of systems. 10
17. a) Give a comprehensive account of Protection. 10
OR
b) Write a note on threats in distributed systems. 10
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