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Reg. No. : .....................................

Name : .........................................

## Third Semester M.C.A. Degree Examination, May 2009
## 06.304 : OPERATING  SYSTEMS

Time : 3 Hours

Max. Marks : 100

**Instructions :** *a) Answer **all** questions from Part **A**.*

*b) Answer **any two** questions from **each** Module of Part – **B**.*

### PART – A                                (10×4=40 Marks)

1. Explain the process of context switching.

2. Write short notes on distributed system.

3. Explain acyclic graph directory structures.

4. Explain concurrency.

5. What is the use of Mail box ? Explain with examples.

6. Explain the difference between single partition and multiple partition allocation with example.

7. Write short notes on logical and physical address.

8. Explain about Bad blocks.

9. Discuss any two file access methods.

10. Explain about the kernel in windows NT.

### PART – B

### Module – I

11. Explain system calls in detail.                                                                  **10**

12. a)  Explain various operating-system services.                                    **6**

    b)  Explain various categories of System Programs.                          **4**

13. Explain file sharing in detail.                                                                  **10**

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**Module – II**

14. Explain various process states with neat diagram. **10**

15. Explain dynamic address translation in paging system with neat diagram. **10**

16. Explain various page replacement strategies in detail. **10**

**Module – III**

17. Explain any four disk scheduling methods in detail. **10**

18. Explain Dijkstra's Bankers deadlock avoidance algorithm. **10**

19. Explain various file system in Window-NT. **10**

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