

2007 UNIVERSITY OF PUNE M.C.A PUNE UNI.

MCA SEM II

OPERATING SYSTEM

3 hrs Max marks : 70

1. a) What are various processor scheduling evaluation methods? Explain analytical approach with example.
- b) Write in short (2 marks each)
 1. What is context switching
 2. Why the page size of logical memory is considered as the power of 2?
 3. What is medium term scheduler?
 4. What is thrashing?
 5. Abstract view of OS.
2. Explain in detail the different operations which takes place on process by operating system right from its creation to termination.
3. Differentiate between paging and segmentation. Explain the address paging translation mechanism in paging detail.
4. Define IPC. Explain in detail that how IPC is implemented in client server system.
5. What are different issues related to disk performance ? Explain any two scheduling algorithm scheduling algorithms with suitable example.
6. Define distributed OS and centralized OS. Explain the NOS architecture in detail.
7. Write short notes on any three
 1. Dining philosopher problem and solution using monitor.
 2. Virtual Machine.
 3. RAID structure.
 4. SAMBA