

D 28420

Name.....

Reg. No.

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2007

Computer Science

CS 301—OPERATING SYSTEM

(2005 admission onwards)

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer any **five** questions.
Each question carries 8 marks.*

1. Explain the structure of an Operating System.
2. What are the process states ? Explain.
3. Describe the **Linux** tasks.
4. Explain inter-process communication of UNIX.
5. Explain the address translation in **Linux** virtual memory scheme.
6. Discuss Deadlock.
7. Discuss the different modes of I/O operation in Windows.

(5 x 8 = 40 marks)

Part B

*Answer any **four** questions.
Each question carries 10 marks.*

8. Discuss Windows 2000 architecture in detail.
9. Explain multi threading.
10. Describe **Linux** kernel **concurrency** mechanism.
11. Explain how memory is allocated and how paging is performed in windows.
12. Explain real-time scheduling.
13. Explain the different types of files in UNIX.

(4 x 10 = 40 marks)