

D 41778

Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2008

Computer Science
CS 301—OPERATING SYSTEM
(2005 admission onwards)

Maximum : 80 Marks

Time : Three Hours

Part A

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

1. What are the functions of operating system ? Explain.
2. Explain any *four* systems calls in **Linux** System.
3. Draw UNIX process state transition diagram and explain.
4. Write the **Linux** atomic operations.
5. What is address space ? Explain Windows virtual address map.'
6. Discuss the characteristics of Real time operating system.
7. Explain the four modules of I/O manager.

(5 x 8 = 40 marks)

Part B

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

8. Describe modern operating systems.
9. Discuss the kernel Components of **Linux** system in detail.
10. Explain Parallel Processor Architectures.
11. Discuss four thread synchronization primitives of **solaris** system.
12. Explain multiprocessor scheduling.
13. Explain the different types of I/O in UNIX.

(4 x 10 = 40 marks)