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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION NOVEMBER 2009

Computer Science

CS 301 – OPERATING SYSTEM

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

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

1. Explain the evolution of operating systems.
2. Discuss the process states in detail.
3. Define address space. Explain window virtual address map.
4. Describe Linux tasks.
5. Explain the characteristics of real time operating system.
6. Explain directory structure with an example.
7. Explain the overview of UNIX file system.

(5 x 8 = 40 marks)

Part B

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

8. Discuss the benefits of a microkernel organization.
9. Describe four thread synchronisation primitives of Solaris System.
10. Define the term deadlock prevention, detection and recovery. Explain.
11. Discuss UNIX SUR4 scheduling.
12. Explain how memory is allocated and how paging is performed in Windows.
13. Mention the different types of **110** in UNIX.

(4 x 10 = 40 marks)