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THIRD SEMESTER M.Sc. DEGREE EXAMINATION
NOVEMBER 2010

Computer Science

CS 301 – OPERATING SYSTEM

(2005 Admissions)

(Regular / Improvement)

Time : Three Hours

Maximum : 80 Marks

Part A

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

1. Mention the operating system objectives and functions.

2. Explain the UNIX Architecture.

3. Discuss about microkernels.

4. Describe multithreading in detail.

5. F plain the conditions under which a deadlock situation can arise.

6. Discuss non-real time scheduling of Linux.

7. Distinguish between single level directory and two level directory structures.

(5 x 8 = 40 marks)

Part B

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

8. Discuss the characteristics of modern operating systems.

9. What are the process control blocks? How are the useful in process control and CPU scheduling?

10. Write the Solaris thread synchronization in detail.

11. Explain about windows 2000 threads.

12. Describe the details of virtual memory technique in Linux.

13. Discuss in detail the file system in UNIX operating system.

(4 x 10 = 40 marks)