B.E./B.TECH (FULL TIME) DEGREE ARREAR EXAMINATIONS, APRIL / MAY 2011
ELECTRONICS AND COMMUNICATION ENGINEERING BRANCH
SEVENTH SEMESTER
EC 501 – OPERATING SYSTEMS
(REGULATIONS 2004)

Time: 3 Hours   Max.Marks: 100

Answer ALL Questions

PART-A (10x2=20 Marks)

1. Differentiate Multiprogramming and Multiprocessing.
2. What is meant by "System Call"?
3. What are the states of "Process"?
4. Write the name of any four scheduling algorithm.
5. Differentiate "Paging" and "Segmentation".
6. Define: "Virtual Memory".
7. Define : "Deadlock".
8. What is the use of "Spooling"?
9. Give two examples for Real Time Operating System.
10. Write any four differences between UNIX and Windows.

PART-B (5x16=80 Marks)

11. Explain the structure of Single User Operating System.

12. (a) Explain the Producer-Consumer problem and its possible solutions.
OR
12.(b) Design an Inter Process Communication System for Multiprocesing System.

13.(a) Explain the "Paging" Memory Management with neat diagram.
OR
13.(b) Explain the "Segmentation" Memory Management with neat diagram.

14.(a) Explain the different aspects of Directory Management.
OR
14.(b) Explain the procedures to control "deadlock:" in the Multiprocessor System.

15.(a) Explain the various concepts of distributed operating system.
OR
15.(b) Explain the various features of Windows 2000 Operating System.