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B.E. / B.Tech (Full Time) DEGREE ARREAR EXAMINATIONS, NOV / DEC 2011
ELECTRONICS AND COMMUNICATION ENGINEERING BRANCH

SEVENTH SEMESTER

EC 501 – OPERATING SYSTEMS

(REGULATION 2004)

48

Time: 3 Hours

Max.marks: 100

Answer ALL Questions

Part-A (10x2=20 Marks)

1. What are the functions of Operating System?
2. Define: Multiprogramming.
3. What are the states of "Process"?
4. What is meant by "Mutual Exclusion"?
5. What are the different policies used for memory management?
6. Define: "Virtual Memory".
7. What is meant by "Spooling"?
8. What are the necessary conditions for the occurrence of "Deadlock"?
9. Write the names of any four versions of UNIX Operating system.
10. Define: Real Time Systems.

Part-B (5x16=80 Marks)

11. Explain the structure of Operating system.
 - 12.(a) Explain the Producer-Consumer problem for Process Synchronization.
OR
 - 12.(b) Explain how Interprocess Communication takes place in Multiprocessor System.
 - 13.(a) Explain the procedure of Segmented Memory Management Systems.
OR
 - 13.(b) Explain the various relocation algorithms used in Memory Management.
 - 14.(a) Explain the various aspects of Directory Management.
OR
 - 14.(b) Explain the various methods of Deadlock prevention.
 - 15.(a) Explain the features of Windows 2000 Operating System.
OR
 - 15.(b) Explain various concepts of Distributed Operating Systems.
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