

Code :R7410407

R7**IV B.Tech I Semester(R07) Supplementary Examinations, May/June 2011
OPERATING SYSTEMS****(Electronics & Communication Engineering)****Time: 3 hours****Max Marks: 80****Answer any FIVE questions
All questions carry equal marks**

1. (a) Define interrupts. Draw and explain the instruction cycle with interrupts.
(b) Explain the instruction execution in detail.
2. (a) Define a process. Draw and explain the structure of a process.
(b) What is a thread? Explain the different types of threads in detail.
3. (a) Write and explain the algorithm for Readers Writers problem.
(b) What is message passing? Explain it in detail.
4. (a) Define deadlock. List and explain the characteristics of a dead lock.
(b) Explain the different method to handle deadlocks.
5. (a) Explain any two page replacement algorithms with example.
(b) What is swapping? Explain continuous memory allocation in detail.
6. (a) Describe round robin and shortest process next scheduling algorithms.
(b) List and explain the techniques for performing I/O.
7. (a) List and explain the various operations on files.
(b) Give brief description about the record blocking.
8. (a) Explain in detail about the different types of threats.
(b) Write short notes on intrusion detection.
