

Code : R7410407 R07

IV B.Tech I Semester (R07) Supplementary Examinations, May 2012 OPERATING SYSTEMS

(Electronics & Communication Engineering)

Time: 3 hours Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. (a) List and explain the various functions of operating systems.
 - (b) Draw and explain the memory hierarchy in detail.
- 2. (a) Give brief description about thread libraries.
 - (b) What is the use of PCB? Draw and explain the structure of it.
- 3. (a) Discuss in detail about the role of mutual exclusion.
 - (b) Explain in detail about the semaphores.
- 4. (a) Define a deadlock. Explain how to prevent from the deadlocks.
 - (b) Explain the various mechanisms to detect the deadlocks.
- 5. (a) What is swapping? Explain continuous memory allocation in detail.
 - (b) Write short notes on demand paging.
- 6. (a) Briefly describe about the three types of scheduling.
 - (b) Explain the disk scheduling policies in detail.
- 7. (a) What is a file? Explain the different techniques to access a file.
 - (b) Explain tow level and tree structured directories in detail.
- 8. (a) Define virus. Explain the stages of viruses and types of viruses in detail.
 - (b) Write short notes on password protection mechanism.
