Code: RA07A60501



## III B.Tech II Semester(R07) Regular & Supplementary Examinations, April/May 2011 OPERATING SYSTEM

(Electrical & Electronics Engineering)

(For students of RR regulation readmitted to III B.Tech II Semester R07)

Time: 3 hours Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. (a) Describe the basic instruction cycle with example.
  - (b) What is an Interrupt? Describe the different types of interrupts.
  - (c) With the help of neat block diagram, describe the computer components with an example.
- 2. (a) What are the criteria based on which scheduling policies are evaluated.
  - (b) Describe round robbin and feedback scheduling policies.
- 3. What is process synchronization? Explain in detail different solutions for critical section problem.
- 4. (a) Explain different page replacement techniques.
  - (b) Explain about demand paging.
- 5. (a) Give the conditions for deadlock and explain the methods of preventing deadlock.
  - (b) What are the principles of deadlock? And explain in detail the two categories of resources.
- 6. (a) What are different file access methods?
  - (b) Explain file system implementation in UNIX operating system.
- 7. Write about:
  - (a) Swap-space management
  - (b) RAID structure
  - (c) Stable-storage implementation
- 8. (a) Write about goals and principles of protection.
  - (b) Explain about firewalling to protect systems and networks.

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