

Code: R7221204

R07

B.Tech II Year II Semester (R07) Supplementary Examinations, April/May 2013

OPERATING SYSTEMS

(Information Technology)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Discuss in detail distributed systems.
(b) Explain various types of system calls in detail.
- 2 (a) Describe various operations on processes.
(b) List and explain various multithreading models.
- 3 Define dining philosopher's problem. Write the solution for it using monitors.
- 4 Discuss in detail the methods to deal with the deadlock problem.
- 5 (a) Explain how segmentation differs from paging.
(b) With an example, explain LRU page replacement algorithm.
- 6 (a) What is a directory? Discuss acyclic-graph directories in detail.
(b) Explain various methods of allocating disk space.
- 7 (a) Discuss RAID levels in detail.
(b) What are the three most important aspects of tertiary storage performance?
- 8 (a) Write notes on access matrix.
(b) Describe various methods, tools and techniques used to improve resistance to threats.
