

Code: 9F00204

MCA - II Semester Regular & Supplementary Examinations, August/September 2012

**OPERATING SYSTEMS**

(For students admitted in 2009, 2010 & 2011 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions

All questions carry equal marks

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- 1 (a) What are the objectives and functions of operating systems?  
(b) What are the differences between distributed systems and real time systems?
- 2 (a) What is preemptive scheduling? Which particular applications preemptive scheduling be used?  
(b) Write about thread scheduling.
- 3 Explain in detail classic problems of synchronization.
- 4 Explain the concept of demand paging and its performance.
- 5 Explain file system interface in windows OS.
- 6 Write about:
  - (a) RAID structure.
  - (b) Tertiary storage structure.
- 7 What are methods of handling deadlocks? Explain them in detail.
- 8 Write about:
  - (a) Domain of protection.
  - (b) Language based protection.

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