Code: 06MC202

MCA - II Semester Supplementary Examinations, August/September 2012
OPERATING SYSTEMS
(For students admitted in 2006, 2007 & 2008 only)

Time: 3 hours   Max Marks: 60

Answer any FIVE questions
All questions carry equal marks
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1   Write the differences between distributed systems and real time systems. Explain with example.

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)   What is paging? Explain with proper example.
    (b)   What is the difference between internal and external fragmentation?
    (c)   Distinguish between logical, relative and physical addresses.

4 (a)   Describe the various file attributes.
    (b)   What are the operations on a file?
    (c)   Explain the purpose of open and close operations.

5   What do you mean by a semaphore? State and solve reader writer problem with the help of a semaphore.

6   How dead locks can be avoided? Explain with the help of necessary algorithms.

7   Explain in detail inter process communication in UNIX OS.

8   Explain in detail memory management in Linux OS.

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