Code No: NR-32-MCA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA-III Semester Regular Examinations, February 2010
UNIX INTERNALS

Time: 3hours   **Max.Marks:60**

Answer any Five questions
All questions carry equal marks
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1.a)   Draw the flow chart for Interrupt handling.
  b)   Explain about the lightweight processes.

2.a)   Explain the important features of SVR3 model
  b)   Explain the limitations of priority inheritance

3.a)   What are the important goals in the design of mach IPC.
  b)   Describe a situation in which a deadlock may be avoided by making the locking granularity finer.
  c)   Compare the IPC functionality provided by pipes and message queues.

4.a)   Explain about temporary file systems
  b)   Explain the drawbacks of SVR4 implementation

5.a)   Explain the components of network file system
  b)   Draw and explain the memory allocators in the kernel

6.   Describe in detail about virtual memory operations.

7.a)   Explain about the classification of devices and drivers
  b)   Describe the flow control between two queues

8.a)   Explain the TLI functions for a connectionless protocol
  b)   Differentiate between TPI and TLI.