Code No: C4007



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.TECH I SEMESTER EXAMINATIONS APRIL/MAY-2012 LINUX PROGRAMMING (INFORMATION TECHNOLOGY)

Time: 3hours

Max.Marks:60

Answer any five questions All questions carry equal marks

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- 1.a) Explain how Unix operating system provides more security than any other operating system.
- b) Explain various meta characters in shell with an example script.
- Explain the following system calls with an example.
 a) creat()
 b) write()
 c) stat()
 d) fcntl()
- 3.a) What is a zombie process? Write a sample program to explain about zombie process.
- b) Differentiate between fork() and vfork().
- 4.a) Explain about the effect of O-NDELAY flag on pipes and fifos.
- b) Write a program to implement two-way communication using pipes.
- 5. Compare the IPC functionality provided by message queues and fifos. What are the advantages and drawbacks of each? Explain briefly.
- 6. What is socket? Explain various socket system calls used for UDP protocol.
- 7. Explain the system calls related to shared memories.
- 8. Explain briefly about the following:
- a) I/O functions in Perl
- b) Interrupt processing in Shell.

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