

Code :R5320503

**R5****III B.Tech II Semester(R05) Supplementary Examinations, April/May 2011****UNIX PROGRAMMING****(Computer Science & Engineering, Information Technology)****Time: 3 hours****Max Marks: 80**

**Answer any FIVE questions**  
**All questions carry equal marks**

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1. What is a process? List and explain various process utilities with suitable examples.
2. Discuss the various backup utilities available in UNIX. Illustrate with suitable examples.
3. (a) Write a shell script to calculate over time pay of 20 employees. Overtime is paid at the rate of Rs.15.00 per hour for every hour worked above 40 hours. Assume that employees do not work for fractional part of an hour.  
(b) Write a C program to concatenate the contents of 2 files using command line arguments.
4. (a) What is metacharacter? List and explain about any 7 metacharacters available in unix.  
(b) Write a shell script which will receive either the filename or the filename with it's full path during execution. this script should obtain information about this file as given by ls - l and display in proper format.
5. Write the syntax of following system calls.
  - (a) open
  - (b) creat
  - (c) read
  - (d) write.
6. (a) Write a program to illustrate the vfork function call.  
(b) Write a program for signal implementation.
7. Briefly explain about malloc, free, realloc, calloc functions.
8. Write a program to transfer a large amount of data between two processes using FIFO.

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