

Code No: **R32054**

**R10**

**Set No. 1**

**III B.Tech II Semester Supplementary Examinations, Dec - 2015**

**UNIX PROGRAMMING  
(Common to CSE and IT)**

**Time: 3 hours**

**Max. Marks: 75**

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

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- 1 a) What does **grep "^\\*"** command do? [4]  
b) Write about hard links and symbolic links. [6]  
c) Write about cut and paste commands. [5]
- 2 a) Write about shell variables and environment variables [6]  
b) Write a shell script to add username as extension to files of PWD [5]  
c) Write a shell script which takes 2 file names and if their contents are same then second one will be deleted. [4]
- 3 a) Write a C program to create a directory, put a file into it and remove it. [7]  
b) Write about stat and fstat system calls. [5]  
c) Write about Sticky Bit. [3]
- 4 a) Write a c program to create a chain of processes in which every parent has only one child. [8]  
b) Write about exec family functions. [7]
- 5 a) Write about abort and sleep functions. [8]  
b) Write about signal sets. [7]
- 6 a) What is Pipe? Write a program to create a pipe between a parent and its child and send the data between them through pipe. [8]  
b) How you duplicate output stream using FIFO? Explain. [7]
- 7 a) Write about the functions semget(), semctl() and semop(). [6]  
b) Write the structure for the semaphore set which is maintained by the kernel. [5]  
c) Write about the function to get a semaphore Id. [4]
- 8 a) How the addresses are associated with Sockets? Explain in detail. [9]  
b) Write about Socket Options. [6]

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