Code No: **R32054**

R10

Set No. 1

III B.Tech II Semester Supplementary Examinations, November/December-2016
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) How do you copy files from one host to other?
   b) What does the command **grep "^*"** do.
   c) Show the octal representation of the permissions rw-r--r--?
   d) If a directory has the permissions 777 and a file in it has the permissions 000, write the security implications from this?

2 a) Discuss about shell variables and environment variables?
   b) Write a shell script to calculate Factorial of a user specified number?

3 a) Write a C program to create a directory, put a file into it and remove it
   b) Write about lseek and fstat functions?
   c) Write about link, symlink and unlink?

4 a) What is a Zombie Process? Explain with an example?
   b) Write about getenv() and putenv() functions?

5 a) What is Race Condition? Explain in detail?
   b) Write about alarm and pause functions?

6 a) Write how you create a FIFO? Explain Client-Server Communication using FIFO?
   b) Write a program to create a pipe between a parent and its child and send the data between them through pipe?

7   Why we use Semaphores? Explain semaphores in detail?

8 a) Explain Byte-Ordering, address format and address lookup in Sockets?
   b) Write about various kinds of Sockets options?

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