Code No: **RT41193**   **R13**   **Set No. 1**

IV B.Tech I Semester Supplementary Examinations, February/March - 2018
UNIX PROGRAMMING
(Electronics and Computer Engineering)

Time: 3 hours   **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B
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PART–A *(22 Marks)*

1. a) What is the use of **mount** and **umount** commands?   [4]
    b) Give example for **test** and **[ ]**.   [4]
    c) What does **cat /etc/passwd** display?   [3]
    d) What is foreground and background process?   [4]
    e) What does **abort** function do?   [3]
    f) What is stream?   [4]

PART–B *(3x16 = 48 Marks)*

2. a) What is **grep** utility? Explain pattern matching features of **grep** utility   [6]
    b) Explain basic regular expression used with **grep**.   [5]
    c) Explain the usage **grep** to display the line that does not contain "unix".   [5]

3. a) Write about integer computing and string handling using **expr** and **basename.** [8]
    b) What are the pattern matching features of **case** for decision making?   [8]

4. a) What does **inode** store? Which important file attribute is not maintained in the
        inode?   [5]
    b) How will you determine whether your system uses the BSD or AT&T version
        of **chown** and **chgrp**?   [6]
    c) Explain the significance of fast symbolic links and dangling symbolic links.   [5]

5. a) What is meant by zombie process in Unix?   [5]
    b) What is the use of **ps** command in Unix?   [6]
    c) How is the ouput of **fork.c** redirected?   [5]

6. a) What are the different sources that may produce signal?   [8]
    b) Write a program creates a child process to send alarm to parent process,
        parent process catch the alarm signal and produce out the current time.   [8]

7. Explain in detail about the interprocess communication using message queues.   [16]