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]