Code No: **RT42024B**   **R13**   Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018
UNIX AND SHELL PROGRAMMING
(Electrical and Electronics 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) List and explain the commands that do not accept any arguments.   [4]
    b) Explain about nl command.   [3]
    c) Define file system.   [3]
    d) Write applications of awk.   [4]
    e) Why shell scripting?   [4]
    f) Explain about C shell.   [4]

PART–B *(3x16 = 48 Marks)*

2. a) Explain about the UNIX architecture.   [8]
    b) Describe the following commands: (i) script (ii) more (iii) tar (iv) mount. [8]

3. a) What are process utilities? Explain in detail.   [8]
    b) Explain about unlink, unmask and rlogin with examples.   [8]

4. a) Discuss about directory API.   [8]
    b) What is redirection? Explain three redirection operator with an example shell
        script.   [8]

5. a) Discuss about string functions and mathematical functions.   [8]
    b) Explain in detail about grep family.   [8]

6. a) Describe environmental variables in Korn shell.   [8]
    b) Explain about expressions in Korn shell.   [8]

7. a) Discuss about environmental and on-off variables in C shell.   [8]
    b) Describe decisions in C shell.   [8]