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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

**B.Tech III Year II Semester Supplementary Examinations February-2022**

**LINUX PROGRAMMING**

(Computer Science & Information Technology)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

- 1 a Describe in detail about the structure of LINUX. 7M  
b Define vi Editor and explain its modes. 5M

OR

- 2 a What are the file types available in Linux? Discuss file operators with suitable examples. 6M  
b Write about the operations unique to directories alone. 6M

**UNIT-II**

- 3 a What command is used for translating characters? Also explain its options with examples. 6M  
b Illustrate all filters with appropriate examples. 6M

OR

- 4 Explain in detail foreground and background jobs. Give example. 12M

**UNIT-III**

- 5 a Differentiate atoms and operators in detail 6M  
b Illustrate decision making statements used in korn shell. 6M

OR

- 6 a How do for-in and until loops work in korn shell? 4M  
b Describe "Dot, class, anchor, back reference and single character" atoms. 8M

**UNIT-IV**

- 7 a Define Associative array? Explain it with example "awk" scripts. 8M  
b Write an awk script to merge contents in two files. 4M

OR

- 8 a Define function .Describe How you use functions in korn shell. 6M  
b What are the system variables used by "awk"? Explain. 6M

**UNIT-V**

- 9 a How do you find a line that matches a regular expression using awk? Explain. 6M  
b What is remote access? Describe about few communication utilities. 6M

OR

- 10 What is ftp? Illustrate how files can be transferred between two systems with Appropriate commands. 12M

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