## K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### 18CS56-UNIX PROGRAMMING

### **EXHAUSTIVE QUESTION BANK**

### **MODULE-2**

- 1. Briefly explain the significance of the seven fields of 'ls –l' command.
- 2. Explain absolute and relative methods of assigning permissions to file using examples.(or) Explain different ways of setting file permissions.
- 3. Current file permission of a regular file "Attendance .txt" are **rw--w-r-x** write the chmod expression required to change it to following:
  - a) rwxrw-r-x b) -xrw-rwx c) rwxrwxrwx
    Using both relative and absolute methods of assigning permissions
- 4. Explain shell features of while, if and for with syntax
- 5. What is the purpose of grepcommand? explain all options
- 6. What are wildcard characters? Explain each with example.
- 7. Explain test command for handling string
- 8. Write a shell script using case to perform all arithmetic operations.
- 9. Explain for loop with all possible sources for argument list.
- 10.Explain with example set and shift commands in unix to manipulate positional arguments
- 11. With examples explain logical operators in shell programming
- 12. Write Shell programs:
  - a) List of files b) processes of user c) Todays date d)Users of the system
- 13. Differentiate between hard link and soft link
- 14. Explain hard link and soft link with examples.
- 15. Write a menu driven shell script to do the following:
  - 1. List of files b) Date c) Users of the system d) Process of user
  - 14. Explain here document (<<) with example.

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- 15.Briefly explain Basic Regular Expression(BRE) and Extended Regular Expression(ERE) metacharacters
- 16. Write regular expression to match the following:
  - a. A decimal number which is non-negative and floating point number
  - b. A valid C variable.
- 17. What would be the effect of the following commands:
  - (a)  $grep"^[A Z]"$  file 1
  - (b) egrep "UNIX | Unix | unix" file1
  - (c) grep "UNIX\$" file1
  - (d) grep "UNIX. UNIX" file1
  - (e) grep ".\*" file1 > file2
- 18. Refer to the following employee database and
  - 2233 | a. | jaisharma | Director | Production | | 12/03/50 | 7000
  - 5678 | Ramesh Babu | D.G.M | Marketing | 19/04/43 | 7800
  - 2365 | barunsengupta | Director | Personnel | 11/04/47 | 5400
  - 1265 | S.N. Dasgupta | Manager | Sales | 12/09/63 | 5600
  - 2467 | anilaggarwal | Manager | Sales | 01/10/78 | 3000
  - 3245 | Sudhir Agarwal | Executive | Personnel | 12/6/89 | 7500
  - 3245 | Sudhir Agrawal | Manage | Personnel | 12/6/89 | 7500
  - a) Frame the regular expression using grep command to search the details
  - b) Search the employees in Sales department
  - c) Search the employees who are Directors.
  - d) Search the employees having name as agarwal/aggarwal/agrawal ignore case
  - e) Search the employees who are manger and show the line numbers.
  - f) Count the number of employee in production department
  - g) List the employee in sales, marketing and perconnel department
  - h) List the employee who's employee id starts with 3
- i) List the employee who'ssalary is above 7000

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