

OR

- 6 a. Explain the UNIX file system with a neat diagram. (10 Marks)  
b. Write differences between absolute pathname and relative pathname along with necessary examples. (10 Marks)

Module-4

- 7 a. Write a shell script to count the number of uppercase, small case, digit or special symbol using case conditional statement by taking input string. (10 Marks)  
b. What is a process? Explain the mechanism of process creation and states of a process. (10 Marks)

OR

- 8 a. Write short notes on :  
(i) at (ii) batch (iii) crm (iv) test (v) expr (10 Marks)  
b. Write a shell script to display the calendar for current month with current date replaced by \* or \*\* depending on whether the date has one digit or two digits. (10 Marks)

Module-5

- 9 a. Write short notes on :  
(i) export (ii) eval (iii) exec (10 Marks)  
b. Write an awk script to delete duplicate line from text.file. The order of original lines must remain unchanged. (10 Marks)

OR

- 10 a. What is awk? Explain the built-in variables used by awk. (10 Marks)  
b. Explain the associative array in awk with an example. Also explain environment array. (10 Marks)

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