UG/3rd Sem/COMP(G)/Pr/19

2019

3rd Semester Examination

# COMPUTER SCIENCE (General)

## Paper - DSC 1CP

## (Practical)

## Linux Programming

Full Marks : 20 Time : 3 Hours

*The figures in the margin indicate full marks.*
*Candidates are required to give their answers in their own words as far as practicable.*
*Illustrate the answers wherever necessary.*

*Answer any question (on lottery basis)* 15×1

1. Write a shell script to find all Fibonacci numbers from 1 to 100.

2. Write a shell script to display the first n lines of a specified file.

3. Write a shell script to find the palindrome number between two specified ranges.

*[ Turn Over ]*

4. Write a shell script to sort a list of n numbers given.

5. Write a shell script to check the validity of a file, if exists the prints the content of the file.

6. Write a shell script to print the content of a file in uppercase.

7. Write a shell script to find the number of words of a string of line without 'WC' command.

8. Write a shell script for a menu driven program as : Press.

   1. For list of users log in in the system.

   2. System calendar

   3. Universal time

   4. List of files in the current directory

   5. Display a message.

9. Write a shell script to display all lines containing the specific word of a file.

10. Write a shell script to check whether a number is perfect square or not.

11. Write a shell script to display.

    1

    0 1

    1 0 1

    0 1 0 1

    1 0 1 0 1

    Where n (no. of lines) is given as input.

12. Write a shell script to find the GCD of two numbers.

13. Write a shell script to check whether a string is palindrome or not.

14. Write a shell script to check whether a number is Armstrong or not.

15. Write a shell script to find the sum of the digits of a given integer.

Viva-Voce : 03 marks

Practical Notebook : 02 Marks

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*Answer any one questions* 15×1=15

1. Write a shell script to find the sum of digits of a given number. 15

2. Write a shell script to check whether the number is Armstrong or not. 15

3. Write commands for following queries : 15

   (a) Display the current date in format 'mm/dd/yy'.

   (b) List files and subdirectories in a directory.

*[ Turn Over ]*

(c) Show the current directory.

(d) Create directories 'student' and 'department' under 'college' directory.

(e) Display the month of 'April 2019'. 15

4. Write a shell script to display on the screen sorted output of "who" command along with the total number of Susers. 15

5. Write a shell script to find the factorial of a given number. 15

6. Create a file with name 'student.txt' and write something on file and then solve the following queries. 15

(a) Search the word "Hello".

(b) Append a line to the file.

(c) Match all lines that do not contain a vowel.

7. Write a shell script to find the GCD of two numbers. 15

8. Write a shell script to test a number is prime or not. 15

9. Write a script to find out the reverse of a number. 15

10. Write a script to show the current year is leap year or not. 15

PNB—02 Marks

Viva Voce—03 Marks

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