## 2022/TDC/ODD/SEM/CSCSEC-301T/089

TDC (CBCS) Odd Semester Exam., 2022

## COMPUTER SCIENCE

( 3rd Semester )

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Course No. : CSCSEC-301T

( Unix/Linux Programming )

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

## Value of the Unit—I was

1. Answer any three of the following questions:

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 $1 \times 3 = 3$ 

- (a) What is Linux?
- (b) Define cold and warm booting.
- (c) Mention two Linux distributions available in the market.
- (d) Explain system libraries.

(Turn Over)



(3)

tools in Linux?

(Turn Over)

Mention the command and its syntax.

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(Continued)

2. Answer any one of the following questions: 6. Answer any one of the following questions: (a) What are the advantages of Linux? (a) Write the uses of the following commands : (b) Write down the difference between Linux and Unix. (i) ls (ii) chmod 3. Answer any one of the following questions: (iii) wait (a) Explain the features of Linux. (iv) lpr (v) mkdin (b) Write down the steps to install Unix Long Timer tigwire consigned to operating system. (b) List the system calls used for process management. UNIT-II — Vie-rati 4. Answer any three of the following:  $1 \times 3 = 3$ 10. Answering the III. TINU Come constructions (a) What is the use of 'clear' command? 7. Answer any three of the following: (b) Fill in the blank: (a) Write the command to change the owner \_\_ command is used to display the information about shell built-in and group of files. command. What is an user account? Mention the syntax of 'rmdir' command. (c) | Fill in the blank : The are sinv (d) What is the use of 'grep' command? \_\_\_\_ command is used for granting 5. Answer any one of the following questions: 2 rights to user. (a) What is external command? to the me its value of the (d) What do you mean by command line (b) How can you record your session?

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12. Answer any one of the following questions:

(Turn Over)

8. Answer any one of the following questions:

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(a) Explain user management system.  (b) What is file system in Linux?		(a)	What is shell script? Write a shell script to calculate the factorial of an integer number.
<ul> <li>9. Answer any one of the following questions: 5</li> <li>(a) Explain the user authentication process.</li> <li>(b) What is disk quota management in Linux/Unix? How to configure the disk</li> </ul>	4.	(b)	What are the responsibilities of the shell? Write a shell script to find the greater of two numbers.  UNIT—V
UNIT—IV	13.	Ans	wer any three of the following: 1×3=
10. Answer any three of the following questions:		(b)	How will you double-space a file?  Write the uses of sort command in Linux.
(a) What is shell variable?  (b) Name the file in which shell programs		(c)	Which command gives the number of lines, words and characters in the data?
are loaded.  (c) What command is used in VI editor to delete a single character?			Fill in the blank:  command is used to display the content of a file.
(d) Write one advantage of shell scripting.			
11. Answer any <i>one</i> of the following questions: 2	14.	Answ	ver any <i>one</i> of the following questions :
(a) What are the usage of shell? (b) Write the difference between Bourne		(a)	Why is 'tr' command used? Explain with syntax.
shell and C shell.		(b)	What is system call?
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(Continued)

## (6)

15. Answer any one of the following questions:

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- (a) Write a shell script to explain the concept of if-else statement. Write a shell script to calculate the factorial of a number.
- (b) Explain the different types of loops used in shell script.

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