

2019/TDC/ODD/SEM/CSCSEC-301T/187

TDC (CBCS) Odd Semester Exam., 2019

COMPUTER SCIENCE

(3rd Semester)

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

UNIT-I

1. Answer any *three* of the following questions :

 $1 \times 3 = 3$

- (a) What is UNIX?
- (b) Define kernel.
- (c) What is system call?
- (d) Mention two distributions available in the market.

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(Turn Over)

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(3)

2. Answer any one of the following questions :

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- (a) Write down the difference between Linux and Unix.
- (b) What are the security features of UNIX?
- 3. (a) Explain the architecture of UNIX operating system.

Or

(b) Write down the steps to install UNIX operating system.

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UNIT-II

- **4.** Answer any *'three* of the following questions : 1×3=3
 - (a) What is external command?
 - (b) Write down the purpose of PWD command.
 - (c) What is the use of ls-l command?
 - (a) Mendan two dationations available r
 - (d) Mention the syntax of 'grep' command.

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5. Answer any one of the following questions :

- (a) How can you record your session? Mention the command and its syntax.
- (b) Which command is used to create a process? Explain with example.
- 6. In UNIX, perform the following : 1×5=5
 - (a) Create a directory to see trail revenue
 - (b) Change the directory
 - (c) Crate a file within the directory
 - (d) Copy the file to the new location
 - (e) Remove the file in old location

OR

7. Explain different process handling commands. 5

UNIT-III

- 8. Answer any three questions as directed : 1×3=3
- (a) Mention different types of user in UNIX system.

(Turn Over)

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 (b) _____ command is used to create user. (Fill in the blank)
(c) _____ command is used for granting rights to user.
(Fill in the blank)

- (d) Write down the purpose of 'chmod' command.
- 9. Answer any one of the following questions :
 - (a) Who can change the attributes of a file or directory? How do you list the attributes of the current directory?
 - (b) Create a file and then assign all permissions to the owner and remove all permissions from others. How do you do that?

10. Explain UNIX file system in detail.

OR

- **11.** (a) How does login process work in Linux/ Unix?
 - (b) What is disk quota management in Linux/Unix? Write down the steps to perform disk management. 1+2=3
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12. Answer any three questions as directed : $1 \times 3 = 3$

- (a) What is shell script?
- (b) How to save a file in Vi editor?
- (c) _____ command is used to delete a single character in Vi editor.

(Fill in the blank)

(d) _____ scrolls full page forward in Vi editor.

(Fill in the blank)

- **13.** Answer any one of the following questions :
 - (a) Write down the steps to execute shell script.
 - (b) What is shell variable? Give example.
- 14. (a) Explain with diagram different modes of operation Vi editor.
 - (b) Write a shell script to find the area of a circle. The circle of a 3

OR

- 15. (a) How will you locate fortieth character of a line?
 - (Turn Over)

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How will you insert a line between two 1

(6)

- (b) How will you quickly move to the fifth lines? How will you ge and replace its four word of a line and replace its four
- characters with something else? (c)
- **16.** Answer any three questions as directed : 1×3=3

UNIT-V

- (a) How can you display the end of the file?
- Write down the purpose of 'cut' (b) command.
 - command is used to sort a file.
- (c) (Fill in the blank)
- (d) How will you double space a file?
- 17. Answer any one of the following questions :
 - (a) How will you produce a list of all files in the current directory without headers, but in three columns?
 - Why is 'tr' command used? Explain with (b) syntax.

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Write a shell script to explain the (a) 18. concept of if-else statement. 3

(7)

Mention some special parameters used (b) by the shell. 2

OR

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19. Write a shell script to calculate factorial of a number.

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