

R18

Code No: 157DU

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, January/February - 2023

SCRIPTING LANGUAGES

(Electronics and Communication Engineering)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

(25 Marks)

- 1.a) How to unzip a zipped file in Linux command line? [2]
- b) What does 777 mean in CHMOD? [3]
- c) Write the functions of File Transfer Protocol? [2]
- d) What is the role of Domain Naming Service? [3]
- e) How Running and Debugging is done in PERL? [2]
- f) Explain the implementation of Subroutines in PERL. [3]
- g) Give a short note on Tk-visual toolkits? [2]
- h) Outline the concept of procedures and scope in TCL. [3]
- i) Mention the use of few Standard Libraries in Python. [2]
- j) List the different Data structures in Python. [3]

PART – B

(50 Marks)

- 2.a) Assess the significance of File and Directory Maintenance System calls in UNIX.
- b) Explain the following System calls. [5+5]
(i) open() (ii) seek() (iii) read() (iv) link()

OR

- 3.a) Differentiate between a process, a program.
- b) Explain various process control commands and their options with examples. [5+5]

- 4.a) Discuss about the three states of TCP connection establishment and termination.
- b) Construct a program to illustrate bind(), listen() and accept() system calls. [5+5]

OR

- 5.a) Explain FTP and its importance in Linux?
- b) Develop a Shell script which checks whether a given file contains a given word. If it does, the script should output the message "The file contains the word". If not, it should output the message "The file doesn't contain the word". [5+5]



- 6.a) Briefly explain the regular expressions in Perl.
- b) Interpret the following statements using Perl regular expressions.
 - i) Matches the date format dd-mm-yyyy
 - ii) Count the number of times the word "the" occurs in the given text
 - iii) Substitute lower case with upper case.

[5+5]

OR

- 7.a) Explain various built-in operators and pattern matching statements in PERL.
- b) Distinguish the following control statements of Perl.
 - i) If and unless
 - ii) While and until
 - iii) Next and last.

[5+5]

- 8.a) Analyse the use of procedures and scope in TCL with suitable examples.
- b) Discuss about the nuts and bolts of TCL Internet Programming.

[5+5]

OR

- 9.a) Explain the data structures in TCL.
- b) Elaborate the following TCL concept giving suitable examples:
 - i) Namespaces
 - ii) Trapping errors.

[5+5]

- 10.a) Compare Mutable and Immutable types of objects in Python. Give examples.
- b) Code a Python Program to concatenate two lists and print the new list elements.

[5+5]

OR

- 11.a) Describe the different types of Exceptions in Python.
- b) Write a small code snippet to illustrate try and except statements in Python.

[5+5]

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