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B. E. (Sixth Semester) Examination, April-May 2021

(New Scheme)

(IT Branch)

UNIX & SHELL PROGRAMMING

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) of each question is compulsory and carry 2 marks. Attempt any two parts from (b), (c) and (d) of each question and carry 7 marks each.

Unit-I

1. (a) Write the output on following :   2

  (i) date +%y

  (ii) mkdir –p ibr/ib/i

(b) Explain in detail cut, paste and join command with example. 7

(c) Explain the various modes of vi editor with example. 7

(d) Explain the file access permission with suitable example in details. 7

Unit-II

2. (a) Write the output on following : 2

    a = 10   b = 20

    echo $ a + $ b

    echo   'expr $ a + $ b'

(b) Explain : 7

    (i) Redivection

    (ii) Quotes

(c) Write a shell script for accepting the following information and string file. 7

    (i)   customer name

    (ii) item description

    (iii) quantity

    (iv) rate

The user should get the facility to enter as many records as he/she wants.

(d) What is the importance of Aliases? Explain with example. 7

Unit-III

3. (a) Write the output on following : 2

    (i) awk 1/sales/ {print}'files

    (ii) awk 1/sales/ {print$ 0}'files

(b) Define GREP command. Explain the family of GREP command with example. 7

(c) Define SED command. Explain any five options of SED command with suitable example. 7

(d) Write an AWK script to find the number of characters, words and lines in a file. 7

Unit-IV

4. (a) Write the output on following : 2

    a = 100   b = 200

    (i)   ((res = a + b))

          print "The value of res = $ res"

(ii) let ans = a + b

    print "The value of ans = $ ans"

(b) Write the various features of KORN shell. Explain it.   7

(c) Explain the concept of variable in KORN shell with suitable examples.   7

(d) Explain the select loop statement with suitable program.   7

Unit-V

5. (a) Write the output of following :   2

        set 100 per = 5

        repeat $ 100 per echo "welcome to C shell"

(b) Describe the various features of C shell in detail.   7

(c) Explain the changing positional parameter and argument validation of C shell.   7

(d) Describe an algorithm for conversion of a path name to an inode.   7