R13

B.Tech III Year II Semester (R13) Regular & Supplementary Examinations May/June 2017
LINUX ADMINISTRATION & PROGRAMMING
(Information Technology)

Time: 3 hours   Max. Marks: 70

PART – A
(Compulsory Question)
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1   Answer the following: (10 X 02 = 20 Marks)
   (a)   What do you mean by boot loader?
   (b)   Write the steps required to boot the system.
   (c)   State any 5 Linux supported file systems and explain ext 3 and ext 2.
   (d)   What is a UNIX shell?
   (e)   List duties of system administrator.
   (f)   How does the behavior of *passwd* command change when invoked by the superuser.
   (g)   List out various components of LAMP server.
   (h)   Explain in brief open SUSE Linux.
   (i)   List the steps used to run Mail server on Linux.
   (j)   How to list all server services running on Linux? Explain.

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2   Describe in detail about the structure of UNIX.
OR
3   Summarize the permission rules. Explain it by using directory level permissions.

UNIT – II

4   What is the relationship of a file name to its inode? Is the relationship one-to-one, one-to-many or many-to-many? Explain your answer with an example.
OR
5   Write a shell script for following:
   (a)   To find the given string is "Administration" or not.
   (b)   Output a number from 0 to 9 using looping constructs.
   (c)   Translate Upper case to lowercase characters.

UNIT – III

6   Explain the role of *tr* command in shell programming.
OR
7   List out various types of GUI tools in Linux. Explain.

UNIT – IV

8   Name five administrative functions that can't be performed by a non privileged user.
OR
9   Explain the steps involved in setting up the LAMP server.

UNIT – V

10   (a)   Discuss the services of common Linux Printing System.
     (b)   Identify and comment on the following commands used in printing:
              (i) Printing. (ii) Listing status. (iii) Removing jobs.
OR
11   Write short notes on Print server and mail server in Linux.

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