

# Tilak Maharashtra Vidyapeeth

## Internal Assignments

**Course:** BCA 3<sup>rd</sup> year 6<sup>th</sup> semester  
**Subject:** Linux  
**Code:** 44413  
**Marks:** 60 Marks

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### Assignment 1

**20 Marks**

- 1) Explain the following:
  - A) Kernel Space and User Space
  - B) Linux File System
- 2) Explain the basic Linux Operating System Architecture in detail?
- 3) Explain “init” process in Linux?
- 4) Explain Directory Structure of Linux?
- 5) Explain the following Linux commands in detail with examples :
  - A) chmod
  - B) ls

### Assignment 2

**20Marks**

- 1) Explain Linux Boot Sequence in detail?
- 2) Display the directory in which user is working and also count no. of lines, words and characters of a file “abc.txt”.
- 3) Explain Linux Disk Partitioning and also explain how to mount and umount a File System?
- 4) Explain usage of Archiving tools in Linux – Tar, Gzip, gunzip commands?
- 5) Explain RPM (Red Hat Package Manager) and print Commands in Linux?

### Assignment 3

**20Marks**

- 1) Explain User and Group Administration in Linux? Explain /etc/shadow file?
- 2) Explain File Permissions and special file permissions – SUID, SGID and sticky bit?
- 3) Explain conditional and loop statements in Linux shell programming?
- 4) Write a shell program to print a table of 2 to 10 and their squares.
- 5) Write a shell program to perform following task:
  - a. Long Listing of Directories
  - b. Display name of the Linux System
  - c. Create a File “XYZ.txt” and show its contents using cat command.
  - d. Move a file “F1.txt” from “/opt” to “/root” directory.