

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF COMPUTER APPLICATIONS
EXAMINATION : DECEMBER – 2023
SEMESTER - I

Sub : Linux & Shell Programming (MCA- 102-22)

Date : 29/12/2023

Total Marks : 60

Time: 10.00 am To 12.30 pm

Instruction:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagram wherever necessary.

Q. 1. Answer the following in 2 - 3 lines. (Any 5) (10)

1. List various UNIX and Linux flavors (names)
2. List the advantages of Linux operating system.
3. List various types of shells used in Linux.
4. Define kernel space in Linux.
5. Explain use of groupadd command with options and example.
6. Define process in Linux. List various states of process.
7. List various commands to shut down and reboot the Linux operating system.

Q. 2. Answer the following in short. (Any 4) (20)

1. Write a procedure to configure YUM server.
2. Explain working of useradd , passwd commands with various options and examples
3. Define RAID. What is RAID1 and RAID5 levels? Explain with diagram. State the advantages and disadvantages of both RAID1 and RAID5.
4. Write a note on VIM editor.
5. Write a detail procedure to create, format and mount data partition in Linux with various commands used.
6. What is the use of ps, top, kill commands in detail with examples.

Q. 3. Answer the following in detail. (Any 3) (30)

1. Explain Linux directory structure in detail with diagram.
2. What is the use of tar command? Explain working of it with various options and examples.
3. Write a procedure to schedule a task to display “Good Night” message every day at 11:30 PM using crontab command.
4. What is the use of ping, hostname, ifup and ifdown commands in Linux? Explain with various examples.
5. What is the use of shell script? State its advantages and disadvantages. When should the shell script used?
