

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF COMPUTER APPLICATIONS
EXAMINATION : DECEMBER - 2024
SEMESTER - I

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

Date : 27/12/2024

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 the features of Linux operating system.
2. List the various types of help levels used in Linux.
3. List UNIX and Linux flavors (Names)
4. What is use of touch command?
5. What is the use of /home and /etc directories in Linux.
6. What is the use of passwd command.
7. List various shells used in Linux.

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

1. Explain the working of rpm command with options and examples.
2. Explain the working of chmod and chown commands with options and examples.
3. Write a procedure to create swap partition in Linux.
4. Define hard links and soft links in Linux. Compare both with diagram. Give examples to create hardlinks and softlinks.
5. Define process in Linux. What are its different states? Give examples.
6. Explain the working of ifconfig, ifup and ifdown commands with examples.

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

1. Explain the Linux Directory Structure (Linux File System Hierarchy) with diagram.
2. Explain cp, mv, mkdir and rmdir commands in detail with options and examples.
3. Explain the use of SUID, SGID and sticky bit permissions used in Linux with examples.
4. What is the use of scheduling in Linux? Explain the working of crontab command with examples.
5. Define shell script. State its advantages and disadvantages. Give one example of Shell scripting.
