

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

Sub : Advanced Linux & Shell Programming (MCA24-104)

Date : 28/12/2024

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. What is shell? List various shells used in Linux.
2. What is the use of man and info commands in Linux? Give examples.
3. What is the use of /boot and /home directories in Linux?
4. What is the use of head and tail commands in Linux? Give examples.
5. What is the use of wall command in Linux? Explain with example.
6. List basic file permissions in Linux with its numeric value.
7. What is the use of touch command In Linux? Explain with examples.

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

1. What are the features of VIM editor? State its advantages and disadvantages.
2. Explain working of useradd and groupadd commands in detail with various options and examples.
3. Explain working of dnf command with various options and examples.
4. Explain working of tar command in detail with various options and examples.
5. Explain working of xfsdump and xfsrestore commands in detail with options and examples.
6. Define process. Explain various process states in Linux.

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

1. How to install Linux O.S.? Explain detail procedure.
2. Compare soft links and hard links with diagram. How to create both? Give examples.
3. Explain working of chmod , chown and chgrp commands with various options and examples.
4. Explain any four Network Management commands with various options and examples.
5. Define shell script. State its advantages. Write a shell script to check whether username is exists or not in Linux O.S.
