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MASTER OF COMPUTER APPLICATIONS
EXAMINATION : DECEMBER - 2025
SEMESTER - I

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

Date : 27/12/2025

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 UNIX and Linux Flavors (Names)
2. Define User Space in Linux.
3. Define inode in Linux.
4. What is the use of /var and /tmp directories in Linux?
5. What is the hardware requirement to install Linux O.S.?
6. What is the use of mkdir command in Linux? Explain with options & examples.
7. List different file types used in Linux.

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

1. Explain the use of cat, head and tail commands in Linux with options and examples.
2. Compare soft links and hard links with diagram. How to create both links? Give examples.
3. Explain use of VIM editor in Linux. State its advantages and disadvantages.
4. What is the use of rpm command in Linux? Explain with various options and examples.
5. Explain working of sort, grep and cut command in Linux with options & examples.
6. Explain the use of useradd , and passwd commands in detail with various options & examples.

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

1. Write a stepwise procedure to install Linux O.S. in detail.
2. Define process in Linux. Explain any four process management commands in Linux with various options and examples.
3. Explain working of any four Network Management commands in Linux with various options and examples.
4. What is the use of tar command in Linux? Explain with various options and examples.
5. Define shell script in Linux. State its advantages. Write a shell script to lock the users between UIDs 2000 to 2020
