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MASTER OF COMPUTER APPLICATIONS (MCA)
EXAMINATION : JUNE - 2025
SEMESTER - I

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

Date : 12/06/2025

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. State the advantages of Linux Operating System.
2. Define kernel space in Linux.
3. What is the use of ls command in Linux? Explain with options & examples.
4. Define shell in Linux. List various shells used in Linux.
5. What is the use of /etc and /tmp directories in Linux?
6. Explain groupadd command with options and examples.
7. What is the use of ping command in Linux? Explain with options & examples.

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

1. Explain the working of useradd & passwd commands with various options & examples.
2. Write a note on VIM editor.
3. Explain use of yum command with various options & examples.
4. Define process in Linux. Explain various process states in Linux.
5. What is the use of tar command in Linux? Explain with options & examples.
6. Write a procedure to create , format and mount a data partition in Linux in detail.

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

1. Explain Linux Directory Structure (Linux File System Hierarchy) in detail with diagram.
 2. Explain working of touch, cp, mv and rm commands in detail with options & examples.
 3. What is the use of ifup, ifdown and hostname commands in Linux? Explain with options and examples.
 4. Explain any four process management commands with various options & examples.
 5. Define shell script. State its advantages and disadvantages. Write a shell script to subtract two numbers.
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