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MASTER OF SCIENCE (M.Sc) in COMPUTER APPLICATIONS
EXAMINATION : DECEMBER-2024/JANUARY-2025
SEMESTER - II
Sub: Linux & Shell Programming (MSC202-22)

Date : 01/01/2025

Total Marks : 60

Time:10.00am 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 diagrams wherever necessary.

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

1. List the features of Linux Operating System.
2. What is the use of /home and /boot directories in Linux?
3. List the features of bash shell.
4. Define kernel space in Linux.
5. List the different types of basic file permissions used in Linux with its numeric value.
6. What is the hardware requirement for Linux installation?
7. List different levels of help levels available in Linux.

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

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

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

1. Write a step by step procedure to install Linux operating system in detail
2. What is the use of scheduling in Linux? Explain the working of crontab command with example.
3. List standard I/O channels used in Linux with its examples. Explain common redirection operators used in Linux with examples.
4. Explain the working of rescue environment in Linux in detail.
5. What is the use of shell scripting in Linux with example? State its advantages and disadvantages
