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MASTER OF SCIENCE (M.Sc) in COMPUTER APPLICATIONS
EXAMINATION : JUNE / JULY - 2022
SEMESTER - II
Sub: Linux & Shell Programming (MSC 202-19)

Date :30/06/2022	Total Marks : 60	Time:2.00 pm to 4.30 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 different UNIX and Linux operating systems names.

2. State primary advantages of Linux operating system.

3. Define kernel space and user space in Linux.

4. Explain the use of write command with example.

5. List different types of shells used in Linux.

6. List special permissions used in Linux with their full forms and numeric value.

7. Explain ping command with examples.

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

1. Explain soft links and hard links in Linux with examples.

2. Write a procedure to configure YUM server.

3. Explain the working of three modes of VIM editor.

4. What is the use of chown and chgrp command? Explain with options & examples.

5. Explain any two process management commands with options and examples.

6. Write a note on Deamons in Linux. Give examples of Daemon services.

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

1. Explain any three user management commands with options and examples.

2. Define init services in Linux. (run levels). What is the command used to change the run level? Explain it with examples.

3. What is the use of rescue environment in Linux? Explain in detail.

4. Define shell script? When it is to be used? State its advantages and disadvantages.

5. Write a shell script to change the shell of the users as /bin/csh for users having UID between 600 to 700