CB Batch 2022-2024

## TILAK MAHARASHTRA VIDYAPEETH, PUNE

# MASTER OF COMPUTER APPLICATIONS

### EXAMINATION: MAY - 2024 SEMESTER - I

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

Date: 30/05/2024 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. State the advantages of Linux operating system.
- 2. State the features of bash shell.
- 3. What is the use of useradd command.
- 4. List the various commands used to shut down the Linux operating system.
- 5. List special types of file permissions used in Linux with its numeric value.
- 6. Define inode in Linux.
- 7. What is the use of /tmp and /etc directories in Linux.

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

(20)

- 1. What is the use of YUM command in Linux? Explain with various options and examples.
- 2. What is the use of groupadd, groupdel and groupmod commands in Linux? Explain with examples.
- 3. What is the use of xfsdump and xfsrestore commands in Linux? Explain with various examples.
- 4. Define RAID in Linux. Compare RAID 1 and RAID 5 levels in Linux with diagram.
- 5. What is the use of VIM editor in Linux? State its features, advantages and disadvantages.
- 6. What is the use of tar command in Linux? Explain 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.
- 2. Explain ps, pstree, top and kill commands in Linux with options and examples.
- 3. What are the different I/O channels used in Linux? Give examples of it. Explain common redirection operators used in Linux.
- 4. Explain any four network management commands with various options and examples.
- 5. What is the use of shell script in Linux? When it should be used? State its advantages.

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