QP CODE: 26800202

26800202

Reg No : .....

Name : .....

I M C A DEGREE EXAMINATION, DECEMBER 2025

Seventh Semester

INTEGRATED MCA

CORE - IMCA7C01 - LINUX OS AND SHELL PROGRAMMING

2020 ADMISSION ONWARDS

B5C13496

Time: 3 Hours Maximum: 75 Marks

Part A

*Answer any **ten** questions*

*Each question carries **3** marks*

1. What are some common file naming conventions in Linux?
2. Discuss the two modes of vi editor.
3. Explain the purpose of the ' | ' symbol in Linux shell commands.
4. What is bash shell?
5. What are the different looping statements in shell script?
6. Write a shell program to print the Fibonacci series using for-do-done loop.
7. What is the role of System administrator?
8. How can you disable a user account by using the shadow file?
9. Explain the purpose of disk partitioning.
10. What is the purpose of backup utilities?
11. Define traceroute.
12. What does the named daemon do?

(10×3=30 marks)

Part B

*Answer **all** questions*

*Each question carries **9** marks*

13. a) Explain the evolution of Linux and its architecture with a neat diagram

OR

b) Explain in detail on vi editors and the commands used in command mode.

14. a) Elaborate the decision control statements in shell script with simple example.

OR

b) Write a note on command line arguments and write a shell program to get two file names as command line arguments and perform the comparison of these two files.

15. a) Write a note on configuration files in Linux.

OR

b) Explain the following commands with appropriate examples:
a) chmod b) chgrp c) chown

16. a) What is the difference between log in as root user and becoming super user using su command?

OR

b) Explain the functionality and purpose of backup utilities such as tar, cpio and dump. Compare and contrast their features and capabilities.

17. a) Illustrate the chfn, ping and finger commands used in Linux operating system.

OR

b) List out the type of services of daemons for Linux and explain any two of them.

(5×9=45 marks)