

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MCA DEGREE EXAMINATION MAY 2023  
(First Semester)

Branch – COMPUTER APPLICATIONS

LINUX ARCHITECTURE AND PROGRAMMING

Time: Three Hours

Maximum: 50 Marks

**SECTION-A (5 Marks)**

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

1. The \_\_\_\_\_ command shows all regular files and directories in the current directory.  
(i) ls (ii) cu (iii) dir (iv) files
2. \_\_\_\_\_ save the current changes to the file and exit from vi.  
(i) w (ii) ZZ (iii) :q (iv) :q!
3. A process is identified on the system by what is referred to as a process \_\_\_\_\_.  
(i) Number (ii) Table (iii) ID (iv) Nature
4. The \_\_\_\_\_ command provides a simple and straightforward method for changing account parameters.  
(i) usermod (ii) umod  
(iii) userch (iv) userchange
5. A \_\_\_\_\_ area is an area of the disk that is made available to Linux if the system runs out of memory.  
(i) Dry (ii) Partition  
(iii) Fragment (iv) Swap

**SECTION - B (15 Marks)**

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 (a) Explain the Keystrokes for Navigating Command Lines.  
OR  
(b) How to expand arithmetic expressions in Linux. Give examples.
- 7 (a) Sketch some of the File matching Meta characters in Linux.  
OR  
(b) Relate Linux File systems with Windows Based File systems.
- 8 (a) Outline the importance of Linux command sed. Give examples.  
OR  
(b) Explain the steps to run Background processes in Linux.
- 9 (a) Discuss the common features that a system administrator is expected to manage.  
OR  
(b) Summarize the importance of Access Control List with example.
- 10 (a) Produce the significance of configuring system logging.  
OR  
(b) State the importance of scp command over rcp command.

Cont...

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 (a) Elucidate the importance of Piping between commands with examples.  
(OR)  
(b) Discuss the special characters to add information to bash prompt.
- 12 (a) Trace the concept of Moving, Copying and Removing files with example.  
(OR)  
(b) Outline the importance of finding files in Linux. Give examples.
- 13 (a) Analyze the commands to kill Process in Linux. Explain with example.  
(OR)  
(b) Elucidate the grep command in Linux with examples.
- 14 (a) Explain the Graphical tools available in Fedora and Red Hat Enterprise Linux.  
(OR)  
(b) Elucidate the command useradd in Linux with its optional parameters.
- 15 (a) Outline the steps to create LVM Logical Volumes.  
(OR)  
(b) Summarize the concept of checking system space in Linux.

Z-Z-Z

END