

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MCA DEGREE EXAMINATION DECEMBER 2022
(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 × 1 = 5)

- 1 With ____ first line of every shell script begins.
(i) & (ii) #
(iii) \$ (iv) !
- 2 Which command is used to check filesystem usage in a system?
(i) fu (ii) du
(iii) df (iv) dd
- 3 How to run a process in the background of Linux process management?
(i) & (ii) ?
(iii) * (iv) |
- 4 Which of the following commands are commonly used to back up Linux systems?
(i) restore (ii) tar
(iii) tape (iv) cpio
- 5 You want to discover the sizes of several dot files in a directory. Which of the following commands might you use to do this?
(i) ls - la (ii) ls - p
(iii) ls - R (iv) ls - d

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a) Analyze the Structure of LINUX.
(OR)
b) Write a shell script to count number of lines present in a text file.
- 7 a) Differentiate Linux File System from Windows-based File System.
(OR)
b) Explain about Editing files with vim and vi.
- 8 a) Describe Listing process with System monitor.
(OR)
b) List out various Operators for test expression.
- 9 a) Write down the role of system administrator.
(OR)
b) Explain about setting permissions with Access Control Lists.

Cont...

- 10 a) Describe how to partition a disk with multiple partitions.
(OR)
b) Discuss about starting the OpenSSH-server service packages.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a) Examine the history of Linux.
(OR)
b) Explain the Connecting and Expanding commands.
- 12 a) Discuss about Listing Files and Directories.
(OR)
b) Explain how to find the location of files stored in database.
- 13 a) Explain about Killing and Renicing processes.
(OR)
b) Analyze the Looping statements used in Shell Scripts.
- 14 a) Evaluate the administrative commands, Configuring files and Log files with suitable example.
(OR)
b) Explain about how to create a User Account in Linux.
- 15 a) Interpret the various Supported filesystem in Mounting file system.
(OR)
b) Enumerate the Server Administration process with suitable example.

Z-Z-Z

END