



BRAINWARE UNIVERSITY



Term End Examination 2023-2024
Programme – M.Sc.(ANCS)-2023
Course Name – Linux System Engineering-I
Course Code - MNCS103
(Semester I)

Full Marks : 60 Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- 1. Choose the correct alternative from the following:
- (i) Assess the implications of hard and soft space limits in the context of disk quotas.
 - a) Ensures fair resource allocation
- b) Provides advanced file recovery options
- c) Promotes system stability
- d) Enhances network performance
- (ii) Identify the differentiation between a monolithic kernel and a microkernel.
 - a) A monolithic kernel handles all of the operating system's tasks, while a microkernel only handles the essential tasks and delegates the rest of the tasks to userspace processes.

b)
A monolithic kernel is more efficient than a

microkernel.

c) A microkernel is more secure than a monolithic kernel.

d) All of the above

- (iii) Recognize the command used to list all of the files in a directory.
 - a) Is

b) dir

c) cd

- d) pwd
- (iv) Identify the subsequent step after BIOS/UEFI initialization in the Linux booting process.
 - a) Loading the boot loader

b) Kernel initialization

c) Initiating the init process

- d) User authentication
- (v) Specify what an IP address range signifies in network configuration.
 - a) Maximum device capacity
- b) Geographic location

c) Data encryption method

- d) Default web browser
- (vi) Identify the command that is used to start a new shell.
 - a) bash

b) zsh

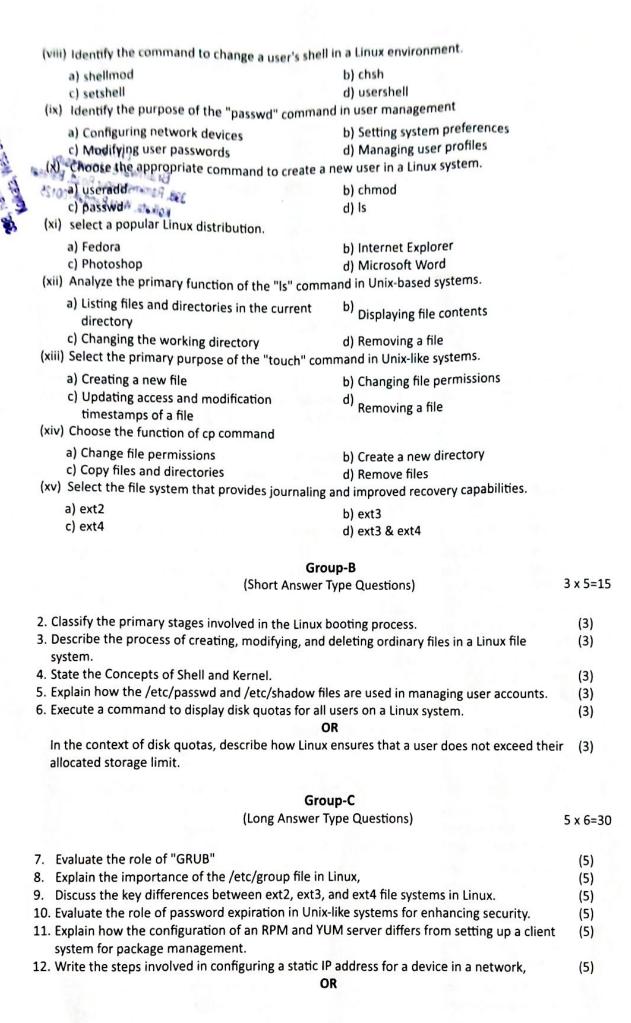
c) fish

d) sh

- (vii) Select the importance of partitioning in Linux.
 - a) Efficient storage utilization
- b) Network optimization

c) Memory management

d) CPU performance



Describe the process of configuring a device to obtain its IP address dynamically through (5)

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Ramkristnapu Road, 82125