



DAI-003-2044004

Seat No. _____

B. Sc. (IT) (Sem. IV) (CBCS) (W.E.F. 2019) Examination

April - 2022

**CS - 22 : Operating Systems Concept with
UNIX/LINUX**

Faculty Code : 003

Subject Code : 2044004

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instructions : (1) All questions are compulsory.
(2) Numbers in the right margin indicate marks.

- 1 (a) Objective type questions : 4
(1) What is operating system ?
(2) SJN _____.
(3) Give the name of memory placement policy in operating system.
(4) What is process ?
- (b) Attempt any **one** out of two : 2
(1) Explain preemptive scheduling algorithm.
(2) What is physical memory and virtual memory.
- (c) Attempt any **one** out of two : 3
(1) Explain PSTD.
(2) Explain function of operating system.
- (d) Attempt any **one** out of two : 5
(1) Explain round robin algorithm with example.
(2) Explain Paging in detail.
- 2 (a) Objective type questions : 4
(1) Give the definition of who command.
(2) What is the use of cron command ?
(3) Use of chown command.
(4) Give the command name of tools for sorting.
- (b) Attempt any **one** out of two : 2
(1) Explain tools for mathematical calculation commands.
(2) Explain any two command for file and directory.
- (c) Attempt any **one** out of two : 3
(1) Explain commands for columns and fields.
(2) Explain commands for finding pattern in files.
- (d) Attempt any **one** out of two : 5
(1) Explain I/o redirection and piping.
(2) Write a short not shell.

- 3 (a) Objective type questions : 4
 (1) What is variable in unix ?
 (2) Use of PS2 system variable.
 (3) Give the syntax of case statement.
 (4) LILO _____.
- (b) Attempt any **one** out of two : 2
 (1) Explain GNU GPL concept.
 (2) What is the use of TERM ?
- (c) Attempt any **one** out of two : 3
 (1) Write a shell script to perform arithmetic operator.
 (2) Give the difference between open source and freeware.
- (d) Attempt any **one** out of two : 5
 (1) Explain in features of linux operating system.
 (2) Write a shell script for Fibonacci series.
- 4 (a) Objective type questions : 4
 (1) What is GNOME ?
 (2) What is KDE ?
 (3) What is x-window manager ?
 (4) GRUB _____.
- (b) Attempt any **one** out of two : 2
 (1) What is package manager in linux ?
 (2) How many way to install any software in linux ?
- (c) Attempt any **one** out of two : 3
 (1) Write a step to install any software in linux.
 (2) Who is the founder of linux ?
- (d) Attempt any **one** out of two : 5
 (1) Explain x11 configuration file.
 (2) Write a short note on window manger.
- 5 (a) Objective type questions : 4
 (1) What is WINE ?
 (2) FTP _____.
 (3) DNS _____.
 (4) How to create user in linux ubuntu give the command for that ?
- (b) Attempt any **one** out of two : 2
 (1) Explain firewall.
 (2) What is Use of LDAP ?
- (c) Attempt any **one** out of two : 3
 (1) Explain samba server.
 (2) Explain apache server.
- (d) Attempt any **one** out of two : 5
 (1) Write short note FTP server.
 (2) How to configure DNS server ?