



DAI-003-003400100

Seat No. _____

B. C. A. (Sem. IV) (CBCS) (W.E.F. 2016) Examination

April - 2022

OS Concepts with UNIX / LINUX : CS-22

(Old Course)

Faculty Code : 003

Subject Code : 003400100

Time : **2.30** Hours]

[Total Marks : **70**

- 1 (a) Attempt following questions : 4
- (1) During I/O operation, a process will move in _____ state.
 - (2) Full form of SMT.
 - (3) What is the name for a portion of a process that can run independently ?
 - (4) Full form of PCB.
- (b) Attempt any one : 2
- (1) Note on preemptive scheduling algorithm.
 - (2) Explain concept of memory fragmentation.
- (c) Attempt any one : 3
- (1) Draw and explain process state transition diagram.
 - (2) Note on FCFS and RR scheduling.
- (d) Attempt any one : 5
- (1) Write note on types of OS.
 - (2) What is non-contiguous memory ? Explain its types.

- 2** (a) Attempt following questions : **4**
- (1) Use of / (pipe) symbol.
 - (2) The numeric value of read permission in UNIX is _____.
 - (3) Which command is generally used to change file permissions ?
 - (4) Which command is used to create symbolic link between files ?
- (b) Attempt any one : **2**
- (1) Sort command
 - (2) Cal command
- (c) Attempt any one : **3**
- (1) Modes in VI editor
 - (2) Explain UNIX architecture.
- (d) Attempt any one : **5**
- (1) Note on mounting and unmounting file system in UNIX.
 - (2) Note on file comparison commands.
- 3** (a) Attempt following questions : **4**
- (1) LILO stands for _____.
 - (2) What \$1 will refer in UNIX ?
 - (3) MBR stands for _____.
 - (4) [] is used to declare condition in unix.
(True / False)
- (b) Attempt any one : **2**
- (1) What is Shell script ? Explain with example.
 - (2) List out operators of UNIX.

- (c) Attempt any one : 3
- (1) Write note on linux booting process.
 - (2) Write Shell Script to check whether entered number is odd or even.
- (d) Attempt any one : 5
- (1) What is Positional Parameters ? Explain with example.
 - (2) Write note on types of linux boot loaders.
- 4 (a) Attempt following questions : 4
- (1) Which command is used to rename file ?
 - (2) Which command is used to initialize an X-session?
 - (3) Write command syntax to uninstall package.
 - (4) Full form of GNOME.
- (b) Attempt any one : 2
- (1) What is Window Manager ?
 - (2) Working with user accounts in linux.
- (c) Attempt any one : 3
- (1) Note on configuring an X-OS.
 - (2) Note on GNOME and its features.
- (d) Attempt any **one** : 5
- (1) Note on various Desktop environments of linux.
 - (2) Explain Layered structure of an X-OS.
- 5 (a) Attempt following questions : 4
- (1) Write command to enable ubuntu's firewall.
 - (2) What is the meaning of Sudo ?
 - (3) Full form of KDE.
 - (4) Full form of SSL.

- (b) Attempt any one : **2**
- (1) Use of apache server.
 - (2) Working with firewall in Ubuntu.
- (c) Attempt any one : **3**
- (1) Working with WINE in linux.
 - (2) Use of LDAP services.
- (d) Attempt any one : **5**
- (1) Explain working with SAMBA server in linux.
 - (2) Optimizing DNS services.
-