DAI-003-2034004   Seat No. _____

B. C. A. (Sem. IV) (W.E.F. 2019) Examination

April - 2022

CS-22 : Operating Systems Concepts Using Unix/Linux

(New Course)

Faculty Code : 003
Subject Code : 2034004

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

1   (a)   Answer the following :   **4**

    (1)   What is the full-form of FCFS?

    (2)   The memory allocated from secondary storage is called _____.

    (3)   Which scheduling algorithm automatically executes queued at quantum?

    (4)   When the process is halt due to IO interruption is called _____.

  (b)   Answer the following :   **2**
Explain any one OS type based on features point of view.

  (c)   Answer the following :   **3**
Explain Round Robbin with example.

  (d)   Answer the following :   **5**
Explain Virtual Memory using Paging.

2   (a)   Answer the following :   **4**

    (1)   Who invented Bourn Shell?

    (2)   Storing the data in specific format on magnetic media is called _____.

    (3)   Which command gives the details of the user who executed the command?

    (4)   Which command changes the mode of file?

(b) Answer the following :   **2**
Explain rmdir and mkdir with example.

(c) Answer the following :   **3**
Explain redirection and piping operators.

(d) Answer the following :   **5**
Explain the architecture of UNIX

3 (a) Answer the following :   **4**

 (1) Which command is used to print the text in shell?

 (2) The software with source code that anyone can modify and enhance is called _____.

 (3) What is the full form of GUI?

 (4) Which variable displays the absolute pathname of user's mailbox?

(b) Answer the following :   **2**
Explain test command with example.

(c) Answer the following :   **3**
Explain command mode and input mode in vi editor.

(d) Answer the following :   **5**
Explain installation and configuration of LINUX with UBUNTU.

4 (a) Answer the following :   **4**

 (1) What is the full form of KDE?

 (2) Write the command to copy varmora.txt to sybca folder in ubuntu.

 (3) Which configuration file checks for the graphics in Linux?

 (4) Which command is used to add new user in Ubuntu?

(b) Answer the following :   **2**
Explain GNOME Panel.

(c) Answer the following :   **3**
Explain the purpose of windows manager.

(d) Answer the following :   **5**
Explain the configuration file of X in the directory / etc/X11/Xorg.conf

5   (a) Answer the following: **4**

(1) Which service is used to resolve (translate) hostnames to internet protocol (IP) addresses and vice versa?

(2) What is the full form of WINE?

(3) Which service is used for directory services authentication?

(4) Which command is used to add the user in Linux?

(b) Answer the following :   **2**
What is the use of FTP Service.

(c) Answer the following :   **3**
How to configure firewall in Linux.

(d) Answer the following :   **5**
Write down the steps to install APACHE server.