DAB-003-00340100   Seat No. _____

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

April - 2022

CS - 22 : Operating System Concepts With UNIX/ LINUX

Faculty Code : 003

Subject Code : 00340100

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

Instruction : Attempt any five questions.

1 (a) Objective type questions :   **4**

   (1) Definition of OS ?

   (2) Full form of BOS.

   (3) Full form of TSOS.

   (4) Full form of RTOS.

   (b) Explain Features of OS.   **2**

   (c) Explain SJF scheduling policies.   **3**

   (d) Explain CACHE memory in details.   **5**

2 (a) Objective type questions :   **4**

   (1) Full form of MAR.

   (2) Full form of PCB.

   (3) Full form of IR.

   (4) List types of memory allocation.

   (b) Long Term Scheduler v/s Short Term Scheduler.   **2**

   (c) Explain First Fit, Best Fit and worst Fit.   **3**

   (d) Paging v/s Segmentation.   **5**

3 (a) Objective type questions : **4**

    (1) UNIX was develop at _____.

    (2) C shell Developed by _____.

    (3) _____ command provides facilities like calculator.

    (4) By Default, CAL command display _____.

  (b) Explain Features of UNIX. **2**

  (c) Explain PS command. **3**

  (d) List Finding Patten in lines command. Explain any one in details. **5**

4 (a) Objective type questions : **4**

    (1) Which command is used to changing ownership of file ?

    (2) Which command is used to compare two sorted file line by line ?

    (3) Full form of GREP.

    (4) Which command used to Quit the file without saving ?

  (b) Explain Types of VI Editor Mode. **2**

  (c) Explain Concept of mounting and demounting file system in UNIX. **3**

  (d) What is redirection ? Explain input and output redirection with example. **5**

5 (a) Objective type questions : **4**

    (1) Full form of BIOS.

    (2) Linux was created by _____.

    (3) Echo $0 returns _____.

    (4) Full form of GPL.

  (b) Explain concept of positional parameter. **2**

  (c) Explain Environment Variable. **3**

  (d) Explain Linux Booting. **5**

6 (a) Objective type questions :   **4**

     (1) List the types of Variable.

     (2) Full form of POST.

     (3) Full form of CUI.

     (4) _____ command is used to delete variable from shell script.

   (b) Explain Shell Keywords.   **2**

   (c) LILO v/s GRUB.   **3**

   (d) Write a shell script to check whether a number   **5**
       is prime or not.

7 (a) Objective type questions :   **4**

     (1) Full Form of KDE.

     (2) To Configure X, which Program should be launched.

     (3) Write syntax to install a package in Linux.

     (4) What is acronym for widget ?

   (b) What is purpose of windows Manager ?   **2**

   (c) Explain the GNOME.   **3**

   (d) Write the step for installing and uninstalling   **5**
       software in Ubuntu.

8 (a) Objective type questions :   **4**

     (1) Full Form of GNOME.

     (2) Which command used to initialize an X session ?

     (3) Which command is used to delete a file ?

     (4) Which utility is used to control the arrangement and appearance of windows ?

   (b) Explain Feature provided by window manager ?   **2**

   (c) Write command to create, delete, copy and list file ?   **3**

   (d) Explain element of Xorg.conf file.   **5**

9   (a)   Objective type questions :   **4**

            (1)   Which command used to delete a user ?

            (2)   Samba is a _____.

            (3)   Apache is a _____.

            (4)   Full form of SWAT.

      (b)   How can user configure firewall in Ubuntu ?   **2**

      (c)   Write a note on DNS services.   **3**

      (d)   Write a note on SAMBA server.   **5**

10   (a)   Objective type questions :   **4**

            (1)   Full form of DNS.

            (2)   Full form FTP.

            (3)   WINE is not an _____.

            (4)   Full form LDAP.

      (b)   Types of user in Ubuntu.   **2**

      (c)   Install and configure WINE.   **3**

      (d)   Optimizing and working with FTP services.   **5**

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