



**MAZ-003-1044004** Seat No. \_\_\_\_\_

**B. Sc. (I.T.) (Sem. IV) (CBCS) Examination**

**March / April - 2018**

**CS - 22 : Operating System Concepts with Unix/Linux**

**Faculty Code : 003**

**Subject Code : 1044004**

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

[Total Marks : 70

- 1 (A) Fill in the blanks : 4
- (1) Round robin scheduling is essentially the preemptive version of \_\_\_\_\_
  - (2) \_\_\_\_\_ and \_\_\_\_\_ are the main goal of OS.
  - (3) In paging, we divide the programs into equal sized blocks called \_\_\_\_\_ and the main memory is divided into equal sized blocks known as \_\_\_\_\_
  - (4) When ready process scheduled it goes to \_\_\_\_\_ state.
- (B) Write the following question in brief : (Any One) 2
- (1) What is OS? List out its features.
  - (2) What is response time? High response time is good or not?
- (C) Write the following question in detail : (Any One) 3
- (1) Explain multiprogramming OS.
  - (2) Explain process life cycle in brief.
- (D) Write the following question : (Any One) 5
- (1) Explain virtual memory management using paging.
  - (2) Explain FCFS, SJF and RR scheduling with suitable example.

- 2 (A) Fill in the blanks : 4
- (1) \_\_\_\_\_ command is used, to change permission of file.
  - (2) \_\_\_\_\_ command is used to compare two sorted files line by line.
  - (3) \_\_\_\_\_ command is used to rename a file.
  - (4) Linux OS is developed by \_\_\_\_\_
- (B) Write the following question in brief : (Any One) 2
- (1) Explain types of files in Unix/Linux.
  - (2) Explain following commands :  
(A) mv (B) grep
- (C) Write the following question in detail : (Any One) 3
- (1) What is shell? Explain types of shell in brief.
  - (2) Explain pattern finding commands in Linux.
- (D) Write the following question : (Any One) 5
- (1) Write short note on VI Editor.
  - (2) Explain I/O redirection and piping concept with suitable example.
- 3 (A) Fill in the blank : 4
- (1) Full form of GPL is \_\_\_\_\_
  - (2) Full form of GRUB is \_\_\_\_\_
  - (3) Until loop start with DO and end with \_\_\_\_\_
  - (4) \_\_\_\_\_ shell variable is used to get total number of positional parameters.
- (B) Write the following question in brief : (Any One) 2
- (1) Explain if..then...else... if statement.
  - (2) Differentiate between LILO v/s GRUB
- (C) Write the following question in detail : (Any One) 3
- (1) Explain booting process of Linux.
  - (2) Write short note on variable in unix/linux.

- (D) Write the following question : (Any **One**) **5**
- (1) Explain looping statement with suitable example.
  - (2) Write a shell to give menu option for following (using case.. statement)
    - (1) To display content of file
    - (2) To rename given file
    - (3) To copy given file

Based on user selected numbers (menu options) it take inputs and give outputs.
- 4** (A) Fill in the blanks : **4**
- (1) Full form of GNOME is \_\_\_\_\_
  - (2) Full form of CLI is \_\_\_\_\_
  - (3) To add new user \_\_\_\_\_ command are used in linux.
  - (4) \_\_\_\_\_ command is used to initialize an X session.
- (B) Write the following question in brief : (Any **One**) **2**
- (1) What is KDE?
  - (2) How to install and uninstall software in linux.
- (C) Write the following question in detail : (Any **One**) **3**
- (1) Explain the configuration of X window system.
  - (2) Explain GNOM Desktop.
- (D) Write the following question : (Any **One**) **5**
- (1) Write short note on Window Manager.
  - (2) Explain the layered structure of X windows system in brief.
- 5** (A) Fill in the blank : **4**
- (1) Full form of UFW is \_\_\_\_\_
  - (2) Full form of FTP is \_\_\_\_\_
  - (3) To delete user \_\_\_\_\_ command are used in linux.
  - (4) \_\_\_\_\_ is the meaning of sudo.

- (B) Write the following question in brief : (Any **One**)      **2**
- (1) What is DNS?
  - (2) What is LDAP Server?
- (C) Write the following question in detail : (Any **One**)      **3**
- (1) Explain configuration of Firewall on ubuntu.
  - (2) What is WINE? Explain use of WINE in ubuntu.
- (D) Write the following question : (Any **One**)      **5**
- (1) How to install and manage apache server in ubuntu?
  - (2) What is Samba? How to install and manage samba server on ubuntu?
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