



**MAZ-003-00340100** Seat No. \_\_\_\_\_

**B. C. A. (Sem. IV) (CBCS) Examination**

**March / April - 2018**

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

**Faculty Code : 003**

**Subject Code : 00340100**

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

[Total Marks : 70

- 1 (A) Attempt the following : 4
- (1) What is operating system?
  - (2) The process had to wait in ready queue until it starts execution, it is called,
  - (3) What is preemptive scheduling?
  - (4) The main memory is divided into equal sized blocks known as,
- (B) Attempt the following : (Any One) 2
- (1) What is turnaround time and, response time?
  - (2) Explain virtual memory using segmentation in brief.
- (C) Attempt the following : (Any One) 3
- (1) Explain Best-fit algorithm.
  - (2) Explain process state transition diagram.
- (D) Attempt the following : (Any One) 5
- (1) Explain FCFS with example.
  - (2) Explain functions of OS.
- 2 (A) Attempt the following : 4
- (1) The \_\_\_\_\_ command is used to rename a file in Linux.
  - (2) What is ordinary file?
  - (3) What is permission?
  - (4) The pwd command is used for changing the password of the user. (True / False)

- (B) Attempt the following : (Any **One**) 2
- (1) Explain grep command.
  - (2) Explain UNIX architecture in brief.
- (C) Attempt the following : (Any **One**) 3
- (1) Explain chmod, chown, chgrp command.
  - (2) Explain wall, touch, od command.
- (D) Attempt the following : (Any **One**) 5
- (1) Explain operators used in redirection and piping.
  - (2) Explain VI editor modes.
- 3** (A) Attempt the following : 4
- (1) What is shell?
  - (2) The system variable \$# is display last command's status. (True / False)
  - (3) List the basic features of the GNU public license.
  - (4) Give full form: GRUB
- (B) Attempt the following : (Any **One**) 2
- (1) Explain IF decision statement.
  - (2) Explain read and echo command.
- (C) Attempt the following : (Any **One**) 3
- (1) List the types of loops in LINUX and explain any one.
  - (2) Explain case statement with example.
- (D) Attempt the following : (Any **One**) 5
- (1) Write a shell script to print 1 1 2 3 5 8 13 ... N series.
  - (2) Write a shell script to check whether the string is palindrome or not.
- 4** (A) Attempt the following : 4
- (1) What is start X command?
  - (2) Write the step to change desktop of GNOME.
  - (3) List the KDE start menu items.
  - (4) What is Windows X?

- (B) Attempt the following : (Any **One**) 2
- (1) Write the step for creates new folder and rename of the folder in Ubuntu.
  - (2) Explain GNOME panel of the Ubuntu.
- (C) Attempt the following : (Any **One**) 3
- (1) Explain open source & freeware.
  - (2) Explain GNOME- control panel in Ubuntu.
- (D) Attempt the following : (Any **One**) 5
- (1) Explain elements of Xorg.conf file.
  - (2) Write the steps for installing and uninstalling software in Ubuntu.
- 5 (A) Attempt the following : 4
- (1) Give full form : LDAP
  - (2) List the special three section of the smb.conf file.
  - (3) Give full form,; SWAT
  - (4) What is WINE?
- (B) Attempt the following : (Any **One**) 2
- (1) Write a note on DNS services.
  - (2) How to install Apache server in Ubuntu.
- (C) Attempt the following : (Any **One**) 3
- (1) How can user configure Firewall in Ubuntu?
  - (2) Write the steps for create new user in Ubuntu.
- (D) Attempt the following : (Any **One**) 5
- (1) How to install Samba server and manage.
  - (2) Explain optimizing web server in Ubuntu.