



**AAR-003-003410**

Seat No. \_\_\_\_\_

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

**April / May – 2016**

**CC-22 : Operating System Concepts With  
Linux/Unix**

**Faculty Code : 003**

**Subject Code : 003410**

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

[Total Marks : 70

**1** Select the appropriate answers from the following : **20**

- (1) Which is the not operating system?  
(A) Ubuntu (B) Red Hat Linux  
(C) IBM AS/400 (D) Sandisc
- (2) Which of the following commands is used for time stamping?  
(A) cd (B) cat  
(C) touch (D) ls
- (3) Which of the following commands is used to remove file?  
(A) rm (B) rmdir  
(C) cp (D) dp
- (4) Which of the following commands is used to list out the directory and files?  
(A) cal (B) ls  
(C) cd (D) none of these
- (5) Which of the following commands is used to create a file?  
(A) cat (B) grep  
(C) ls (D) none of these
- (6) Which of the following commands is used to change permissions of files?  
(A) grep (B) cal  
(C) chmod (D) chmode

- (7) Which of the following commands is used for pattern matching?  
 (A) grep (B) cal  
 (C) mv (D) bc
- (8) Which of the following commands is used to display the system date and time?  
 (A) date (B) time  
 (C) cdate (D) none of these
- (9) Which of the following commands is used to display the calendar?  
 (A) cl (B) cal  
 (C) mv (D) calender
- (10) Which of the following commands is used to display the terminal type?  
 (A) cp (B) tty  
 (C) grep (D) none of these
- (11) GRUB means \_\_\_\_\_.  
 (A) Grand Unified BootLoader  
 (B) Grand Universal Boot  
 (C) Grand Unified Base  
 (D) Grand Universal Base
- (12) Linux uses \_\_\_\_\_ directory to store system configuration files.  
 (A) /bin (B) /dev  
 (C) /boot (D) /etc
- (13) How much work is completed in given time is known as \_\_\_\_\_.  
 (A) Turnaround time (B) Waiting time  
 (C) Utilization time (D) Throughput
- (14) Which is the desktop environment in ubuntu?  
 (A) GNOME (B) IDE  
 (C) DEO (D) terminal
- (15) Correct syntax of while loop?  
 (A) while [condition] (B) while (condition)  
 (C) while condition (D) none of these
- (16) Which command is used to create a directory in linux?  
 (A) rmdir (B) mkdir  
 (C) cd (D) dir

- (17) Which command is used to send message to all login users?  
 (A) write (B) wall  
 (C) tty (D) telnet
- (18) Which command is used to send message to only one user?  
 (A) write (B) wall  
 (C) tty (D) telnet
- (19) Which of the shell variable to display last command's status?  
 (A) \$\$ (B) \$#  
 (C) \$? (D) \$0
- (20) Which of the system variable to display the current shell name?  
 (A) \$SHELL (B) \$HOME  
 (C) \$TERM (D) \$PATH

- 2** (A) Answer the following questions : (any **three**) **6**
- (1) Explain History of Linux.
  - (2) Explain Unix architecture.
  - (3) Explain Process Life Cycle Diagram.
  - (4) Explain Types of shell.
  - (5) Explain Cursor movement command in VI editor.
- (B) Attempt (any **three**) : **9**
- (1) Explain Process Scheduling algorithm FCFS with example.
  - (2) Explain File test operators in shell scripting.
  - (3) Explain any two communication commands.
  - (4) Explain samba server.
  - (5) Write a shell script program to enter any no. and check that no. is odd or even.
  - (6) Write a shell script program to enter any year and check that year is leap year or not.
- (C) Attempt the following questions : (any **two**) **10**
- (1) Explain GNOME desktop.
  - (2) Explain Redirection and piping.
  - (3) Explain Linux Booting Process.
  - (4) Explain if statement in shell scripting with example.
  - (5) Explain case structure in shell scripting with example.

- 3** (A) Answer the following questions : (any **three**) **6**
- (1) What is CPU scheduling.
  - (2) What is SJN in operating system.
  - (3) Explain Round robin scheduling policy.
  - (4) Explain types of files in linux.
  - (5) Explain grep command.
  - (6) Explain sort command.
- (B) Attempt (any **three**) : **9**
- (1) Explain features of Linux.
  - (2) Explain any two process related commands.
  - (3) Explain Firewall services in Linux.
  - (4) Explain LILO, CUI, and GUI.
  - (5) Explain FTP services.
  - (6) Explain wine software.
- (C) Attempt (any **two**) : **10**
- (1) Write a shell script to enter any file and check that file is directory file or not.
  - (2) Write shell script to demonstrate positional parameter.
  - (3) Write shell script to enter any no. and display the factorial of that no.
  - (4) Write shell script to enter any file and check that file has read permission to it or not.
  - (5) Write shell script to print following pyramid :
- ```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```