



**DM-003-003417**

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

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

**April / May - 2015**

**CS-22 : OPERATING SYSTEM  
CONCEPTS WITH UNIX/LINUX**

**Faculty Code : 003**

**Subject Code : 003417**

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

[Total Marks : 70

**1 Give the answers of the following MCQ in answer sheet only. 20**

(1) Who is called Supervisor of Computer Activity?

(A) Memory (B) Operating System

(C) I/O Device (D) Control Unit.

(2) The first process launched by the linux kernel is

(A) init process (B) zombie process

(C) batch process (D) boot process

(3) Samba Server is useful \_\_\_\_\_.

(A) File and Print Services.

(B) Webpage Services

(C) DNS Services

(D) None of the above.

(4) Which Command is useful in startx command to do process ID of currently running XDM

(A) Xsession (B) Xresources

(C) Xaccess (D) Xdm-pid

- (5) Using of which Command is to check host alive or not
- (A) traceroute                      (B) ip  
(C) Ping                                (D) ipconfig
- (6) Which of the following commands gets permission from the system admin before submit job.
- (A) Wait                                (B) Cron  
(C) At                                    (D) Kill
- (7) Which is the repetitive control structure?
- (A) For                                  (B) While  
(C) Until                                (D) All
- (8) CUI means \_\_\_\_\_.
- (A) Command User Interface.  
(B) Common User Interface.  
(C) Command User Intermediate.  
(D) Command User Interval
- (9) Virtual Memory is
- (A) Extremely Large Main Memory.  
(B) Extremely Large Secondary Memory.  
(C) An illusion of extremely large Main Memory,  
(D) An illusion of Extremely large Secondary Memory.
- (10) The priority of a process can be changed using \_\_\_\_\_command.
- (A) cmd                                (B) Cat  
(C) Grep                                (D) Nice

- (11) Which of the following Vi editor command deletes characters from current cursor position to end of the line.
- (A) d\$                      (B) D  
(C) DD                      (D) dw
- (12) Which of the following commands is useful to communicate with remote computer.
- (A) Write                    (B) Finger  
(C) telnet                  (D) News
- (13) Match Zero or more occurrence of the previous character using of which Meta character.
- (A) [XYZ]                  (B) [a-f]  
(C) \*                        (D) .
- (14) GRUB means \_\_\_\_\_
- (A) Grand Unified BootLoader  
(B) Grand Universal Boot  
(C) Grand Unified Base  
(D) Grand Universal Base
- (15) Provide Security using of which Service.
- (A) Web Service            (B) DNS Service  
(C) FTP Service            (D) Firewall
- (16) In Linux Booting In it run level which is number used to reboot.
- (A) 2                        (B) 4  
(C) 6                        (D) 3

(17) A parent process calling \_\_\_\_\_ system call will be suspended until children process terminates.

(A) Wait. (B) Fork.

(C) Exit. (D) Exec.

(18) Linux uses \_\_\_\_\_ directory to store system configuration files.

(A) /bin. (B) /dev.

(C) /boot. (D) /etc.

(19) Using of which command changes the ownership of a file

(A) Chown (B) chmod

(C) chgrp (D) None.

(20) how much work is completed in given time is known as \_\_\_\_\_

(A) Turnaround time. (B) Waiting time.

(C) Utilizations time. (D) Through put.

2 (A) Attempt any **three** out of six.

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(1) Explain Unix architecture.

(2) Explain History of Linux.

(3) Explain Process Life Cycle Diagram.

- (4) Explain Operation Mode and Cursor Movement Command in VI Editor.
- (5) Explain Types of Shell.
- (6) Write down shell script to find out any two Files Exist or not.

(B) Attempt any **three** out six : **9**

- (1) Explain Process Scheduling Algorithm SJN and Round Robin.
- (2) Explain System Variables, Shell Variables and User Variables.
- (3) Explain Redirection and Input Output Redirection,
- (4) Explain Meta characters and Pipe Operator.
- (5) Explain Communication Commands.
- (6) Explain Samba Server.

(C) Attempt any **two** out five : **10**

- (1) Explain Linux Booting Process.
- (2) Explain desktop environment of X-windows.
- (3) Explain Startx Command.
- (4) Explain KDE Panel.
- (5) Explain Gnome Desktop,

- 3** (A) Attempt any **three** out six : **6**
- (1) Explain Features of OS.
  - (2) Explain Non Repetitive Control Structure.
  - (3) Explain Test Command and Logical Operators.
  - (4) Explain Types of File in Unix.
  - (5) Explain Web Services,
  - (6) Explain Wine Software.
- (B) Attempt any **three** out six : **9**
- (1) Explain Features and Structure of Linux.
  - (2) Explain Process Related Command.
  - (3) Explain DNS Services in Linux.
  - (4) Explain Firewall services in Linux.
  - (5) Explain LILO, CUI and GUI.
  - (6) Explain FTP Services.
- (C) Attempt any **two** out five : **10**
- (1) Write down a Shell Script to Print Mark Sheet of Student Print Msg of Pass with Distinction or First or Second or Pass Class.
  - (2) Write down a Shell Script to Print sum of digit of given number by User. - (Hint : $123=1+2+3=6$ ).

- (3) Write down a Shell Script to find Palindrome Numbers.
- (4) Write down a Shell Script to print Factorial of given Number.
- (5) Write down a Shell Script to Print Following pyramid.

```
          1
        1  2  1
      1  2  3  2  1
    1  2  3  4  3  2  1
  1  2  3  4  5  4  3  2  1
```

