



DM-003-003404

Seat No. _____

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

April / May – 2015

**CS-22: Operating System Concepts With Linux/Unix
(Old Course)**

Faculty Code : 003

Subject Code : 003404

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

[Total Marks :70

Instructions: MCQ Answer should be written in given answer sheet.

1 Multiple Choice Questions. 20

(1) PCB Stands for _____

- (A) Process Control Block
- (B) Process Control Byte
- (C) Program Control Block
- (D) Process Code Block

(2) SJF Stands for _____

- (A) Shortest Job File
- (B) Shortest Job First
- (C) Sort Job First
- (D) Shortest Job File

- (3) PMT stands for _____
- (A) Page Mask Table
 - (B) Process Mask Table
 - (C) Page Map Table
 - (D) Page Map Test
- (4) _____ Command is used to quit VI editor without saving changes.
- (A) :q!
 - (B) :q?
 - (C) ctrl+z
 - (D) exit
- (5) _____ meta character is used to match pattern at the end of line.
- (A) *
 - (B) \$
 - (C) %
 - (D) @
- (6) Which command is used to change case from upper to lower or vice versa?
- (A) upper
 - (B) lower
 - (C) tr
 - (D) change
- (7) pwd stands for _____
- (A) Picture Working Disk
 - (B) Present Working Disk
 - (C) Present Working Directory
 - (D) Present Write Directory

- (8) Which command is used to set/modify file's permission in unix ?
- (A) change (b) chmod
(C) update (D) set
- (9) VI Editor has _____ mode.
- (A) 0 (B) 1
(C) 2 (D) 3
- (10) In VI editor to copy current line _____ command is used.
- (A) yy (B) xx
(C) pp (D) cc
- (11) _____ is a program which is currently in execution.
- (A) Computer (B) Application
(C) Software (D) Process
- (12) _____ command is used for help in unix.
- (A) man (B) display
(C) ls (D) none of these
- (13) To work with columns and fields in file _____ command is used.
- (A) cut (B) paste
(C) join (D) All of the above

(14) Which command is used to display all the files in current directory?

- (A) list (B) ls
(C) file (D) pwd

(15) _____ command allows a user to view a file, one screen at a time.

- (A) ls (B) pwd
(C) more (D) vi

(16) A default umask is _____

- (A) 022 (B) 777
(C) 000 (D) 012

(17) Which of the following is a function of Shell?

- (A) Command Interpretation
(B) Substitution of filename
(C) Environment Control
(D) All of the above

(18) Which command is used to get a value from user?

- (A) echo (B) read
(C) get (D) set

(19) _____ parameter stores an exit status of last command.

- (A) \$?
- (B) \$#
- (C) \$*
- (D) \$\$

(20) JCL Stands for _____

- (A) Job Control Line
- (B) Job Control Language
- (C) Job Computer Language
- (D) Just Control Language

2 (A) Answers the following: **(Any Three)** **6**

- (1) od
- (2) tee
- (3) pg
- (4) at
- (5) cron
- (6) cat

(B) Answers the following : **(Any Three)** **9**

- (1) Explain Case in Unix.
- (2) Explain ln command.
- (3) Explain types of file in Unix.
- (4) Explain file permission in Unix.
- (5) Explain file comparison commands.
- (6) Explain internal fragmentation.

(C) Answers the following : **(Any Two)** **10**

- (1) Explain Positional Parameters.
- (2) Explain VI Editor.
- (3) Explain types of shell.
- (4) What is OS? Explain real time OS.
- (5) Explain functions of OS.

3 (A) Answers the following : **(Any Three)** **6**

- (1) head Vs. tail
- (2) grep Vs. egrep.
- (3) break Vs. continue
- (4) Explain System variable in Unix.
- (5) Explain bc command.
- (6) Explain telnet and mail command.

(B) Answers the following : **(Any Three)** **9**

- (1) Explain IO Redirection in Unix.
- (2) Explain Virtual Memory.
- (3) Explain until loop.
- (4) Explain uniq and sort command.
- (5) Explain Paging.
- (6) Explain Time Sharing OS.

(C) Write a Program Code: **(Any Two)**

10

- (1) Write a shell script to check number is even or odd.
- (2) Write a shell script to calculate simple interest.
- (3) Write a shell script to generate following output.

```
      *
    * *
  * * *
* * * *
* * * * *
```

- (4) Write a shell script to find maximum from three numbers.
- (5) Write a shell script to copy file using command line.
