



**AAR-003-003404**      Seat No. \_\_\_\_\_

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

**April / May – 2016**

**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 :** (1) SECTION-I 20 Marks MCQ.  
(2) SECTION-II 50 Marks Descriptive

#### **SECTION-I**

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

(1) Who is the interface between program and O.S.?  
(A) System Call      (B) System program  
(C) System structure      (D) System Component

(2) FCFS means  
(A) First come first system  
(B) File come first system  
(c) First come first serve  
(D) File come first serve

(3) Which OS is used in Airline Reservation ?  
(A) Real Time      (B) Batch  
(C) Online      (D) Time sharing

(4) PCB means  
(A) Process control block  
(B) Prefer class base  
(C) Process control base  
(D) Process class block

(5) PSR means  
(A) Process state relation  
(B) Process state register  
(C) Prefer state register  
(D) Prefer state relation

(6) Technique of only loading virtual pages into memory is called  
(A) Demand paging (B) Virtual pages  
(C) Swapping (D) Page fault

(7) List of process is called  
(A) Scheduler list (B) Process Scheduler list  
(C) process list (D) none

(8) MAR means  
(A) Memory Allocation Register  
(B) Memory Address Register  
(C) Master Address Register  
(D) none

(9) What algorithm does Linux use for demand paging ?  
(A) Buddy (B) LRU  
(C) FIFO (D) segmenting

(10) Which command is used to create a file ?  
(A) rm (B) ls  
(C) cat (D) none

(11) To show the present working directory \_\_\_\_\_  
(A) pwd (B) cur  
(C) pws (D) pre

12. To scroll up one line  
(A) ctrl + y (B) ctrl + u  
(C) ctrl + b (D) ctrl + e

(13) The priority of a process can be changed using \_\_\_\_\_ command.  
(A) cmd (B) cat  
(C) grep (D) nice

(14) Which of the following commands is useful to communicate with remote computer ?  
(A) Write (B) Finger  
(C) telnet (D) News

(15) \_\_\_\_\_ is used to terminate the switch case.  
(A) end case (B) end  
(C) close (D) esac

(16) \_\_\_\_\_ command changes the last modification time and last access time of the given file.

(A) touch (B) modify  
(C) finger (D) change

(17) Which command is used to record session in Linux ?

(A) script (B) session  
(C) both (A) and (B) (D) none

(18) By default the scale of basic calculator is \_\_\_\_\_.

(A) 5 (B) 15  
(C) 10 (D) 20

(19) \_\_\_\_\_ command is used to get the list of active processes.

(A) ls (B) ps  
(C) dir (D) get

(20) For sorting a file in reverse order we can use

(A) sort-r (B) sort-d  
(C) sort -rev (D) sort -desc

## **SECTION-II**

2 (a) Attempt (any **three**) : 6

- (1) What is the meaning of OS?
- (2) What is Scheduling?
- (3) What is paging ?
- (4) What is segmentation ?
- (5) What is SJN ?
- (6) What is batch OS ?

(b) Attempt (any **three**) : 9

- (1) Explain tail command
- (2) Explain who command
- (3) Explain features of OS.
- (4) What is Shell ? Explain types of shell
- (5) Explain process life cycle.
- (6) Explain PCB.

(c) Attempt (any **two**) : **10**

- (1) Explain types of files in UNIX
- (2) Explain Round Robin and FCFS
- (3) Explain virtual memory
- (4) Explain UNIX architecture
- (5) Explain Login commands.

**3** (a) Attempt (any **three**) : **6**

- (1) Explain cat command
- (2) Explain head and tail command
- (3) Explain wc and touch command
- (4) Explain mkdir and rmdir command
- (5) Explain find and pg command
- (6) Explain mount command.

(b) Attempt (any **three**) : **9**

- (1) Explain pattern matching commands.
- (2) Explain communication commands.
- (3) Explain process related commands.
- (4) Explain comparing commands.
- (5) Explain redirection and piping
- (6) Explain shell variable.

(c) Attempt (any **two**) : **10**

- (1) Explain VI editor
- (2) Explain looping statement
- (3) Explain decision statement
- (4) Write a shell script to print total of 1 to 10
- (5) Explain test command with operators.

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