



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-1 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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