**OPERATING SYSTEM CONCEPTS**

Q.1) Which command will be used to display the current user id and name ?

a. Who b. Which c. Whoami d. whereis

Q.2) As an abstraction, what operations apply to processes?

a. create b. exit c. status d. All of the above

Q.3) Which command allow you to determine if a host is connected to the internet?

a. cmd b. Is-Ia c. ping d. pwd

Q.4) Computer that handles concurrent users and multiple jobs are called\_\_\_\_\_\_\_\_\_\_\_\_\_

a. Client b. Network Client c. Network servers d. All of the above

Q.5) Which of the following make up DOS?

a. Boot files b. File Management files c. Utility files d. All of the above

Q.6) The file assign4.html has permissions to set as r w x r w x r w x

a. The file is really a directory and was named incorrectly

b. Everyone can read, write, and execute the file

c. It is impossible for a html file to have permissions set that way

d. The file can not be viewed on the WWW

Q.7) Which of the following is true for DLLs?

a. DLLs don’t get loaded in to random access memory together with the main program

b. A DLL helps promote developing modular programs

c. Both 1 and 2

d. None of the above

Q.8) On a single processor multi-threading generally occurs by \_\_\_\_\_\_\_\_\_\_\_\_\_-

a. Time division multiplexing b. Multi processing

c. Context switching d. None of the above

Q.9) The ability of an Operating System to execute different parts of a program simultaneously is known

as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. Multi - Tasking b. Multi programming c. Multi – Threading d. Multi – scheduling

Q.10) Which of the following is main objective of Disk Scheduling?

a. To minimize seek time b. To maximize turnaround time

c. To minimize throughout d. To maximize bandwidth

Q.11) In which of the following condition deadlock will occur?

a. Mutual wait; hold and wait; pre-emption; circular wait

b. Mutual exclusion; hold and no wait; pre-emption; circular wait

c. Mutual exclusion; hold and wait, pre-emption; circular wait

d. Mutual exclusion; hold and wait; non pre-emption ; circular wait

Q.12) Which command will be used to display what date is it this Friday?

a. Date-fri b. Date-d fri c. Cal-d fri d. None of the above

Q.13) Which command will be used to print selected parts of lines from each FILE to standard output?

a. Cut [option]…[FILE]… b. Print [option]…[FILE]…

c. Cmp [option]…[FILE]… d. Comm. [option]…[FILE]…

Q.14) Multiplexing of a single physical resource involves\_\_\_\_\_\_\_\_\_\_\_\_\_

a. Combining resources based on time b. Combining resources based on space

c. Dividing the resource based on time or space d. All of the above

Q.15) When the processor is in user mode, all addresses are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. Physical address b. Logical address c. Absolute address d. Memory address

Q.16) What is an interrupt?

a. It is an immediate transfer of control caused by an event in the system

b. Some interrupts can only occur when bit 1 of the psw register is 1

c. Both 1 & 2

d. None of the above

Q.17) Plan ahead so that you never get into a situation where deadlock is inevitable is called as \_\_\_\_\_

a. Deadlock prevention b. Deadlock avoidance c. Deadlock recovery d. Avoiding Mutual exclusion

Q.18) In which situation a process is prevented from proceeding because some other process always has the

resources it needs?

a. Locking b. Deadlock c. Starvation d. Blocking

Q.19) Which of the following statement is false?

a. A smaller page size leads to smaller page tables

b. A smaller page size leads to move TLB misses

c. A smaller page size leads to fewer page faults

d. A smaller page size reduces paging I/O throughout

Q.20) Anything that can be used by only a single process at any instant in time is called as \_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. Memory b. Thread c. Space d. Resources

Q.21) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ determines which process gets CPU and when

a. Dispatcher b. Scheduler c. Allocator d. Process allocator

Q.22) Which method is used to eliminate fragmentation after it occurs?

a. Compaction b. Segmentation c. Paging d. All of the above

Q.23) Which method is used by memory to improve disk performance is used?

a. Disk Scheduling b. Disk caching c. Both 1 & 2 d. None of the above

Q.24) When paging technique be used?

a. It is a solution to external fragmentation problem

b. It is used to allow a process to be allocating

c. Both 1 & 2

d. None of the above

Q.25) Which method is used by a program to make request to operating system?

a. System call b. CPU call c. Memory Management d. Interrupt call

Q.26) The ability of a computer, machine, electronic system or network to maintain limited functionality even when a large portion of it has been destroyed or rendered is called as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. Fault tolerance b. Fault Management c. Graceful degradation d. Denial of services

Q.27) Memory allocation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. is a process involves specification of memory addresses to its instructions and data

b. is an aspect of a more general action known as binding

c. Both 1 & 2

d. None of the above

Q.28) Which type of binding perform before the operation of a program begins?

a. Static binding b. Dynamic binding c. Synchronous binding d. Asynchronous binding

Q.29) Which of the following statement is true for dynamic allocation?

a. Allocation is performed during execution of a program

b. Allocation exactly equals data size

c. No wastage of memory

d. All of the above

Q.30) Pre-emptive scheduling is used to temporally suspending a running process\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. To allow starving processes to run b. Before the CPU time slice expires

c. When it requests I/O d. When interrupt occurs

Q.31) The memory allocated to a process contains \_\_\_\_\_\_\_\_\_\_\_\_\_

a. Code and non static data of the program to be executed

b. Stack

c. Program controlled by dynamic data

d. All of the above

Q.32) Which of the following mode is performing I/O operations?

a. Interrupt mode b. Running mode c. Memory access mode d. Safe mode

Q.33) When a process terminates and all it’s child process must also be termed this situation is called as \_\_\_

a. Child termination b. Child parent termination c. Spawn termination d. Cascading termination

Q.34) Which of the following register contains address of the next instruction to be executed by the CPU?

a. Program counter register b. CPU registers c. Control register d. Condition code register

Q.35) When an interrupt arises during its execution and the scheduler selects some other program for execution

is called as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. Preemption b. Non Preemption c. Priority d. Interrupt Processing

Q.36) Page-replacement technique provides\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. Memory contraction b. Compile time relocability

c. Memory protection d. None of the above

Q.37) Swap space resides in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. SRAM b. DRAM c. Processor d. Disk

Q.38) Which of the following policy is used by Linux for page replacement?

a. LRU b. Optimal c. FIFO d. MRU

Q.39) Which of the following statement is false?

a. Linux kernel modules are dynamically loadable

b. Dirty buffers in the disk cache are written to the cache when the cache is too full

c. Each buffer in the cache has not a buffer header that is allocated in a slab of the slab allocator

d. The vnode data structure of the virtual file system contains pointers to device-specific functions

Q.40) A process sends data to another process and the sender does not wait till the data is received by the

receiver. This type of transfer is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. Synchronous b. Asynchronous c. Blocking d. None of the above

Q.41) Which command would yu use to create a sub-director in your home directory?

a. mkdir b. dir c. cp d. rm

Q.42) Which command will display a calendar?

a. calendar b. cal c. dis cal d. view cal

Q.43) The interval between submission of a request and the first response to that request is called as \_\_\_\_\_\_

a. Turnaround time b. Time delay c. Response time d. Request time

Q.44) A unique number is used to look up an entry in the inode table which gives information on the type, size

and location of the file is called as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. Inode value b. Inode c. Inode number d. All of the above

Q.45) Which of the following controls the degree of multi programming?

a. Long term scheduler b. Short term scheduler c. Both 1 & 2 d. None of the above

Q.46) How can you view the permission-settings on all files in the current directory?

a. displayall b. Is-I c. listall d. listdir

Q.47) Which command sends file content to standard output and list the content of short files to the screen?

a. echo b. cp c. cat d. None of the above

Q.48) Which of the following statement is false?

a. Virtual memory is used only in multi-user systems

b. Segmentation suffers from external fragmentation

c. Paging suffers from internal fragmentation

d. Segmentation memory can be paged

Q.49) In which scenario the First-Come, First-Served scheduling policy, I/O bound processes may have to wait

long in the ready queue waiting for a CPU bound job to finish?

a. Aging b. Priority inversion c. Priority Inheritance d. Convoy effect

Q.50) How can we determined the minimum number of page frames that must be allocated to a running process

in a virtual memory environment?

a. the instruction set architecture b. page size

c. number of processes in memory d. physical memory size