

**Q1. To access the services of operating system, the interface is provided by the:**

- A. system calls**
- B. API**
- C. library**
- D. assembly instructions**

**Answer A**

## **Q2. For an effective operating system, when to check for deadlock?**

- a) every time a resource request is made**
- b) at fixed time intervals**
- c) every time a resource request is made at fixed time intervals**
- d) none of the mentioned**

**Answer C**

**Q3. Memory management technique in which system stores and retrieves data from secondary storage for use in main memory is called?**

- a) Fragmentation**
- b) Paging**
- c) Mapping**
- d) None of the mentioned**

**Answer B**

**Q4. Termination of the process terminates \_\_\_\_\_**

- a) First thread of the process**
- b) First two threads of the process**
- c) All threads within the process**
- d) No thread within the process**

**Answer B**

**Q5. The technique in which the CPU generates physical addresses directly is known as -----**

- a) Relocation register method**
- b) Real addressing**
- c) Virtual addressing**
- d) None of the mentioned**

**Answer B**

## **Q6. What is a dedicated device ?**

- a) Opposite to a sharable device**
- b) Same as a sharable device**
- c) Can be used concurrently by several processes**
- d) None of the mentioned**

**Answer A**

## **Q7. What is the fence register used for ?**

- a) To disk protection**
- b) To CPU protection**
- c) To memory protection**
- d) None of these**

**Answer C**

**Q8. Which of the following does not interrupt the running process ?**

- a) Timer interrupt
- b) Device
- c) Power failure
- d) Scheduler process

**Answer D**

## **Q9. The Banker algorithm is used for ?**

- A. To rectify deadlock**
- B. To detect deadlock**
- C. To prevent deadlock**
- D. To solve deadlock**

**Answer C**

**Q10. Which one of the following can not be scheduled by the kernel ?**

- a) Kernel level thread**
- b) User level thread**
- c) Process**
- d) None of the mentioned**

**Answer B**

**Q11. In distributed systems, link and site failure is detected by \_\_\_\_\_**

- a) Polling**
- b) Handshaking**
- c) Token passing**
- d) None of the mentioned**

**Answer B**

**Q12. The wait operation of the semaphore basically works on the basic \_\_\_\_\_ system call.**

- a) stop()**
- b) block()**
- c) hold()**
- d) wait()**

**Answer B**

**Q13. Paging increases the \_\_\_\_\_ time.**

- a) Waiting
- b) Execution
- c) Context – switch
- d) All of the mentioned

**Answer C**

**Q14. The priority of a process will \_\_\_\_\_ if the scheduler assigns it a static priority.**

- a) Change
- b) Remain unchanged
- c) Depends on the operating system
- d) None of the mentioned

**Answer B**

**Q2. In operating system, each process has its own:**

- A. address space and global variables**
- B. open files**
- C. pending alarms, signals and signal handlers**
- D. all of the mentioned**

**Answer D**

### **Q3. What is the ready state of a process?**

- A. when process is scheduled to run after some execution**
- B. when process is unable to run until some task has been completed**
- C. when process is using the CPU**
- D. none of the mentioned**

**Answer A**

#### **Q4. A set of processes is deadlock if:**

- A. each process is blocked and will remain so forever**
- B. each process is terminated**
- C. all processes are trying to kill each other**
- D. none of the mentioned**

**Answer A**

**Q5. In priority scheduling algorithm, when a process arrives at the ready queue, its priority is compared with the priority of:**

- A. all process**
- B. currently running process**
- C. parent process**
- D. init process**

**Answer B**

**Q6. Resources which can be taken away from a process without causing any ill effects to the process are called \_\_\_\_\_**

- (A) preemptable resources**
- (B) non-preemptable resources**
- (C) sharable resources**
- (D) None of the mentioned**

**Answer A**

**Q7. If no cycle exists in the resource allocation graph \_\_\_\_\_**

- (A) then the system will not be in a safe state
- (B) then the system will be in a safe state
- (C) both A and B
- (D) None of the mentioned

**Answer B**

## **Q8. In Unix, Which system call creates the new process ?**

- (A) fork**
- (B) create**
- (C) new**
- (D) first**

**Answer A**

**Q9. The strategy of making processes that are logically runnable to be temporarily suspended is called \_\_\_\_\_**

- (A) Non preemptive scheduling**
- (B) Preemptive scheduling**
- (C) Shortest job first**
- (D) First come First served**

**Answer B**

**Q10. Semaphore is a/an \_\_\_\_\_ to solve the critical section problem.**

- (A) hardware for a system**
- (B) special program for a system**
- (C) integer variable**
- (D) program**

**Answer C**

**Q11. Physical memory is broken into fixed-sized  
blocks called \_\_\_\_\_**

- (A) frames**
- (B) pages**
- (C) sectors**
- (D) files**

**Answer A**

**Q12. In segmentation, each address is specified by \_\_\_\_\_**

- (A) a segment number & offset**
- (B) an offset & value**
- (C) a value & segment number**
- (D) a key & value**

**Answer A**

**Q13. Which one of the following command can delete a directory which is not empty?**

- (A) rm -r**
- (B) rmdir**
- (C) rm \***
- (D) del \***

**Answer A**

**Q14. Which command is used for displaying contents of a file?**

- (A) cp
- (B) rm
- (C) cat
- (D) mkdir

**Answer C**

**Q15. Multiprogramming of the computer system increases**

- (A) Memory**
- (B) Storage**
- (C) CPU utilization**
- (D) None of above**

**Answer C**

**Q16. A process said to be in \_\_\_\_\_ state if it was waiting for an event that will never occur.**

- (A) Safe**
- (B) Unsafe**
- (C) Starvation**
- (D) Deadlock**

**Answer D**

## **Q17. Which happens first authorization or authentication?**

- (A) Authorization**
- (B) Authentication**
- (C) Authorization & Authentication are same**
- (D) None of the mentioned**

**Answer A**

**Q18. When the suspended process is moved to the secondary storage.  
This process is called?**

- A. process mix.**
- B. swapping**
- C. Swap-In**
- D. Swap-Out**

**Answer B**

**Q19. What is the real disadvantage of a linear list of directory entries?**

- A. size of the linear list in memory**
- B. linear search to find a file**
- C. it is not reliable**
- D. All of the above**

**Answer B**

## **Q20. PCB stands for?**

- A. Process Current Block**
- B. Parent Control Block**
- C. Parent Current Block**
- D. Process Control Block**

**Answer D**

**Q. Which one of the following Scheduling algorithm allocates the CPU first to the process that requests the CPU first?**

- A. Priority scheduling**
- B. Shortest job scheduling**
- C. First-come, first-served scheduling**
- D. None of above**

**Answer C**

**Q. The systems which allow only one process execution at a time,  
are called as \_\_\_\_\_**

- A.Uniprogramming systems**
- B.Uniprocessing systems**
- C.Unitasking systems**
- D.None of the mentioned**

**Answer B**

**Q. In the operating system each process has its own**

- A.Address space and global variables**
- B.Pending alarms, signals and signal handlers**
- C.Open files**
- D.All of the mentioned**

**Answer D**

**Q. Which of the following commands should you use to delete files on a linux system?**

- A. mv**
- B. Expunge**
- C. Delete**
- D. Rm**

**Answer D**

## **Q. Which One Is An Example Of Connectionless Protocols?**

- A. TCP**
- B. UDP**
- C. IPX/SPX**
- D. Frame Relay**

**Answer B**

**Q. \_\_\_\_\_ is built directly on the hardware.**

- A. Computer Environment**
- B. Application Software**
- C. Database System**
- D. Operating System**

**Answer D**

## **Q. What a virtual-memory miss is called?**

- a)Hit miss**
- b)Page hit**
- c)Page miss**
- d)Page fault**

**Answer D**

**Q. When a program tries to access a page that is mapped in address space but not loaded in physical memory, then what occurs**

- a) page fault occurs**
- b) fatal error occurs**
- c) segmentation fault occurs**
- d) no error occurs**

**Answer A**

**Q. Which of the following variable wait within the to enable a process**

- A. a condition is defined by a condition variable**
- B. objects Boolean objects can be used by condition variables**
- C. semaphore must be used**
- D. all of the mentioned**

**Answer A**

## **Q. How can we avoid deadlock**

- A. resource allocation must be done at once**
- B. there must be a fixed number of resources to allocate**
- C. all deadlock process must be aborted**
- D. inversion technique can be used**

**Answer B**

**Q. Instructions fetched by CPU according to the value of --- from memory?**

- A. program status word**
- B. status register**
- C. program counter**
- D. instruction register**

**Answer C**

**Q. Timer is used to prevent a single**

- a)Job
- b)Time
- c)Computer
- d)Information

**Answer A**

**Q. Which of the following requires a device driver?**

- a) Register**
- b) Cache**
- c) Main memory**
- d) Disk**

**Answer D**

**Q. A program in execution is called**

- a) A Paging**
- b) A Process**
- c) A virtual memory**
- d) A Demand Page**

**Answer B**

**Q. Which of the following memory unit that processor can access more rapidly**

- a) Main Memory**
- b) Virtual Memory**
- c) Cache memory**
- d) Read Only Memory**

**Answer C**

**Q. Which of the following refers to associative memory ?**

- A.The address of the data is generated by the CPU
- B.The address of the data is supplied by the users
- C.The data are accessed sequentially
- D.There is no need for an address i.e. the data is used as an address

**Answer D**

**Q.Scheduling of threads is done by**

- A.Output**
- B.Operating System**
- C.Input**
- D.Memory**

**Answer B**

**Q. Which scheduler selects which processes should be brought into the ready queue?**

- a) Real-term**
- b) Long-term**
- c) Mid-term**
- d) Short-term**

**Answer B**

**Q. Piece of code that only one thread can execute at a time is called**

- a) Mutual Exclusion**
- b) Critical Section**
- c) Synchronization**
- d) All of them**

**Answer B**

**Q1. An operating system that can do multitasking means that .....**

- A. The OS can divide up work between several CPUs.
- B. Several programs can be operated concurrently
- C. Multiple people can use the computer concurrently
- D. All of the above

**Answer B**

**Q2. Example of open source operating system is .....**

- A. Linux**
- B. Windows**
- C. Android**
- D. DOS**

**Answer A**

**Q3. Selection of an operating system is known as .....**

- A. Site selection**
- B. Product selection**
- C. Process selection**
- D. Equipment selection**

**Answer C**

**Q4. The multi-user Operating System is based on the concept of .....**

- A. Time-losing**
- B. Time-gaining**
- C. Time-sharing**
- D. Time-spooling**

**Answer C**

## **Q5. Running a system in safe mode .....**

- A. prevents unauthorized access**
- B. protects the system from viruses.**
- C. loads a minimum number of drivers.**
- D. All of the above**

**Answer C**

**Q6. OS does not boot itself when a system is .....**

- A. Reset**
- B. Restarted**
- C. Powered on**
- D. Shutdown**

**Answer D**

**Q7. .... provides the interface to access the services of the operating system.**

- A. API**
- B. Library**
- C. System call**
- D. Assembly instruction**

**Answer C**

## **Q8. The main function of the command interpreter is .....**

- A. To get and execute the next user-specified command**
- B. To provide the interface between the api and application program**
- C. To handle the files in operating system**
- D. None of the above**

**Answer A**

**Q10. Which one of the following errors will be handled by the operating system?**

- A. Uniprogramming systems**
- B. Unitasking systems**
- C. Uniprocessing systems**
- D. None of these**

**Answer B**

**Q11. Which folder contains the recently viewed web pages content?**

- A. Explorer**
- B. Temporary Internet Files**
- C. History**
- D. Windows**

**Answer B**

**Q12. A common boundary between two computer systems is known as .....**

- A.Intradiction**
- B.Surface**
- C.Interface**
- D.None Of The Above**

**Answer C**

**Q14. The desktop operating system is also called a .....**

- A.Single user operating system**
- B.Client operating system**
- C.Multi user operating system**
- D.Embedded operating system**

**Answer B**

**Q15. In what mode can only one program be executed at one time?**

- A.Virtual Real**
- B.Compatibility**
- C.Real**
- D.Protected**

**Answer C**

**Q16. What is the name of the technique in which the operating system of a computer executes several programs concurrently by switching back and forth between them?**

- A). Paging**
- B). Windowing**
- C). Partitioning**
- D). Multitasking**

**Answer D**

**Q17. Virtual memory is \_\_\_\_\_?**

- A). An extremely large secondary memory**
- B). An illusion of an extremely large memory**
- C). An extremely large main memory**
- D). A type of memory used in Super Computers**

**Answer B**

**Q18. Which of the following are services provided by the operating systems?**

- A). Program creation and execution**
- B). Providing access to hardware and resources**
- C). Internal and external error detection**
- D). All of the above**

**Answer D**

**19. A page fault occurs when \_\_\_\_\_?**

- A). The page is not in main memory**
- B). One tries to divide a number by 0**
- C). The page is in main memory**
- D). The page is corrupted by application software**

**Answer A**

**Q20. Which part of the operating system is responsible for CPU scheduling?**

- A). Main memory manager**
- B). I/O system manager**
- C). System call**
- D). None of the above**

**Answer D**

## **Q1. Thrashing**

- (A) Can be caused by poor paging algorithms**
- (B) Always occur on large computers**
- (C) Can always be avoided by swapping**
- (D) Is a natural consequence of virtual memory system**

**Answer A**

## **Q2. A critical section is a program segment**

- (A) Which must be enclosed by a pair of semaphore operations, P and V**
- (B) Where shared resources are accessed**
- (C) Which avoids deadlocks**
- (D) Which should run in a certain specified amount of time**

**Answer B**

**Q3. Spooling is most beneficial in multi-programming environment where**

- (A) There is limited primary memory and need for secondary memory**
- (B) Jobs are evenly divided as I/O bound and CPU bound**
- (C) Most jobs are I/O bound**
- (D) Most jobs are CPU-bound**

**Answer B**

## **Q4. Unsafe states are?**

- A. Not Deadlocks**
- B. Deadlocks**
- C. Livelocks**
- D. None of these**

**Answer A**

**Q5. The release and request of resources are a type of which of the following?**

- A. System calls**
- B. I/O interrupts.**
- C. command lines**
- D. None**

**Answer A**

## **Q6. A binary semaphore has a value of**

- A. 0**
- B. 1**
- C. -1**
- D. 2**

**Answer B**

## **Q7. The process scheduler in the processor management unit**

- (A) Co-ordinates the process synchronization**
- (B) Selects a process to run**
- (C) Selects a job to run**
- (D) Gives all submitted jobs to the job scheduler**

**Answer B**

## **Q8. Turnaround time is defined as**

- (A) Waiting time**
- (B) Delay between job submission  
and job completion**
- (C) Both (a) and (b)**
- (D) None of these**

**Answer B**

## **Q9. Special software to create a job queue is called**

- (A) Linkage editor**
- (B) Interpreter**
- (C) Spooler**
- (D) Drive**

**Answer C**

## **Q10. Block cache and buffer cache are used**

- (A) To speed up main memory read operation**
- (B) To increase the capacity of the main memory**
- (C) To handle interrupts**
- (D) To improve disk performance**

**Answer D**

## **Q11. Which of the following(s) is/are the characteristic(s) of UNIX?**

- (A) Multi user**
- (B) Multi tasking**
- (C) Kernel Manages data**
- (D) All of these**

**Answer D**

**Q12. The operating system as a devices management keeps track of devices, channels and control units is called as**

13

- (A) I/O receiver**
- (B) I/O traffic controller**
- (C) I/O manager**
- (D) I/O dispatch**

**Q1. Which of the following decided the minimum number of frames be allocated to a process?**

- A. operating System**
- B. the amount of available physical memory**
- C. instruction set architecture**
- D. none of the above**

**Answer C**

**Q2. Which implementation is used to separate mechanism from the policy in the operating system?**

- A. Two level implementation**
- B. Multi level implementation**
- C. Single level implementation**
- D. None**

**Answer A**

**Q3. \_\_\_\_\_ is called operating system?**

- A. link to interface the hardware and application programs**
- B. collection of programs that manages hardware resources**
- C. system service provider to the application programs**
- D. all of the above**

**Answer D**

**Q5. Suppose a machine in which all memory reference instructions have only one memory address, How many frame(s) do we need?**

- A. three
- B. two
- C. one
- D. none

**Answer B**

**Q6. Which of them shares characteristics with both hardware and software?**

- A. Operating system**
- B. Data**
- C. Software**
- D. None**

**Answer A**

**Q7. \_\_\_\_\_ error will be handle by the operating system.**

- A. power failure**
- B. connection failure in the network**
- C. lack of paper in printer**
- D. all of the above**

**Answer D**

**Q8. if the order of operation on two or more files are similar in files, then the operation will be**

- a)sequential**
- b)combinational**
- c)complex**
- d)simple**

**Answer D**

**Q9. A process is copied into the main memory  
from the secondary memory**

- a) Swapping**
- b) Paging**
- c) Segmentation**
- d) Demand paging**

**Answer D**

**Q10. When a program tries to access a page that is mapped in address space but not loaded in physical memory, then what occurs**

- a) page fault occurs**
- b) fatal error occurs**
- c) segmentation fault occurs**
- d) no error occurs**

**Answer A**

## **Q11. Instructions fetched by CPU according to the value of --- from memory?**

- A. program status word**
- B. status register**
- C. program counter**
- D. instruction register**

**Answer C**

**Q12. -- is called a memory buffer and it is used to contain a speed differential**

- A. cache**
- B. accumulator**
- C. disk buffer**
- D. stack pointer**

**Answer A**

## **Q13. The address generated by CPU is:**

- A. absolute address**
- B. logical address**
- C. physical address**
- D. mac address**

**Answer B**

**Q14. Which of the following option is true for virtual to physical address run-time mapping?**

- A. CPU**
- B. Operating system**
- C. memory management unit**
- D. PCI**

**Answer C**

## **Q15. Prevention strategies of deadlock are very...?**

- A. Simple**
- B. Complex**
- C. Conservative**
- D. Straight**

**Answer C**

## **Q16. Which labs initially developed by UNIX?**

- A. NASA**
- B. Microsoft**
- C. Kaspersky**
- D. Bell**

**Answer D**

**Q17. The advantage of Multiprocessor system is .....**

- A. Operating system**
- B. Expensive hardware**
- C. Microsoft**
- D. Increased Throughput**

**Answer D**

**Q18. .... that implies an unsafe state. ?**

- A. the existence of deadlock**
- B. that deadlock will eventually occur**
- C. the pages of deadlock**
- D. that some unfortunate sequence of events  
might lead to deadlock**

**Answer D**

## **Q19. Why Spooling helps?**

- A. while printing when computer release to do other things**
- B. jobs go more smoothly with less stop**
- C. printing it is a more secure method of accessing data**
- D. none of the above**

**Answer A**

**Q20. .... is an interrupt handler.**

- A. memory location that keeps track**
- B. peripheral devices**
- C. utility program**
- D. numeric code that indicated the priority request**

**Answer C**

**Q1. The systems which allow only one process execution at a time, are called as \_\_\_\_\_**

- A. Uniprogramming systems**
- B. Uniprocessing systems**
- C. Unitasking systems**
- D. None of the mentioned**

**Answer B**

## **Q2. Which of the following refers to associative memory ?**

- A. The address of the data is generated by the CPU**
- B. The address of the data is supplied by the users**
- C. The data are accessed sequentially**
- D. There is no need for an address i.e. the data is used as an address**

**Answer D**

### **Q3. What else is a command interpreter called ?**

- A. Prompt**
- B. Kernel**
- C. Shell**
- D. Command**

**Answer C**

## **Q4. A co-processor**

- A. Is relatively easy to support in software**
- B. Is quite common in modern computer**
- C. Causes all processor to function equally**
- D. Works with any application**

**Answer A**

**Q8. A set of processes is deadlock if \_\_\_\_\_**

- A. Each process is terminated**
- B. All processes are trying to kill each other**
- C. Each process is blocked and will remain  
so forever**
- D. None of the mentioned**

**Answer C**

## **Q9. A process can be terminated due to**

- a. normal exit**
- b. fatal error**
- c. killed by another process**
- d. all of the mentioned**

**Answer D**

## **Q10. A process stack does not contain**

- a. function parameters**
- b. local variables**
- c. return addresses**
- d. pid of child process**

**Answer D**

## **Q11. What is a short-term scheduler?**

- a. it selects which process has to be brought into the ready queue**
- b. it selects which process has to be executed next and allocates cpu**
- c. it selects which process to remove from memory by swapping**
- d. none of these**

**Answer B**

## **Q12. An unrecoverable error is known as.**

- a. hard error**
- b. tough error**
- c. soft error**
- d. none of these**

**Answer A**

## **Q14. In priority scheduling algorithm**

- a. cpu is allocated to the process with highest priority**
- b. cpu is allocated to the process with lowest priority**
- c. equal priority processes can not be scheduled**
- d. none of the mentioned**

**Answer A**

## **Q15. Time quantum is defined in**

- a. shortest job scheduling algorithm**
- b. round robin scheduling algorithm**
- c. priority scheduling algorithm**
- d. multilevel queue scheduling algorithm**

**Answer B**

## **Q16. What is the reusable resource?**

- a. that can be used by one process at a time and is not depleted by that use**
- b. that can be used by more than one process at a time**
- c. that can be shared between various threads**
- d. none of the mentioned**

**Answer A**

**Q17. The circular wait condition can be prevented by**

- a. defining a linear ordering of resource types
- b. using thread
- C. using pipes
- d. all of the mentioned

**Answer A**

**Q18. A problem encountered in multitasking when a process is perpetually denied necessary resources is called**

- a. deadlock
- b. starvation
- C. inversion
- d. aging

**Answer B**

**Q19. A memory buffer used to accommodate a speed differential is called**

- (A) First in first out-order**
- (B) Last in first out-order**
- (C) Parallel fashion**
- (D) Load balancing**

**Q20. The address of a page table in memory is pointed by**

- a. stack pointer**
- b. page table base register**
- C. page register**
- d. program counter**

**Answer B**