OS_MCQ

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1. For which of the following offset can be positive or negative?

Answers

1. SEEK_SET

2. SEEK_END

3. SEEK_CUR

4. All of the above

5. None of the above

2. In which of the IPC mechanism, data is not copied from user space to kernel s

Answers

1. Pipe

2. Message queue

3. Shared memory

4. socket

3. A bootloader is responsible for
i. loading an operating system kernel and its components
ii. loading supporting infrastructure into memory
iii. beginning the kernel's execution

Answers

1. i and ii

2. i and iii

3. ii and iii

4. All of the above

4. In which of the following state change in child process, performing wait allc

Answers

1. the child terminated

2. the child was stopped by a signal

3. the child was resumed by a signal

4. All of the above

5. Which of the following is not used to examine and change the signal action?

Answers

1. signal

2. sigaction

3. sigprocmask

4. All of the above

6. Select the value of mode if O_CREAT flag is provided in open system call to

Answers

1. 0640

2. 0644

3. 0460

4. 0464

7. Select correct option for mutex.

Answers

1. A thread can lock mutex twice.

2. A thread locking mutex is owner of that mutex.

3. Owner can not unlock the mutex.

4. None of the above

8. What is internal fragmentation?

Answers

1. process is not utilizing the whole partition allocated to it.

2. process is utilizing the whole partition allocated to it.

3. amount of space required for process is not available.

4. amount of space required for process is available, but not contiguous.

9. Physical memory : _____ :: Logical Memory : _____

Answers

1. Pages, Frames

2. Frames, Pages

3. Pages, Fragments

4. fragments, Frames

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10. If the size of logical address space is 2 to the power of m, and a page size

Answers

1. m, n

2. n, m

3. m – n, m

4. m – n, n

11. LRU page replacement algorithm suffers from Belady's anomaly.

Answers

1. true

2. false

12. Which of the following is journaling file system

Answers

1. JFS

2. UFS

3. ext2

4. ext3

13. Thrashing

Answers

1. reduces page I/O

2. decreases the degree of multiprogramming

3. implies excessive page I/O

4. improves the system performance

14. While fork(), the child's set of pending signals is initially _____.

Answers

1. filled with same as parent

2. empty

3. filled except masked signals in parent

4. None of the above

15. The child does not inherit _____.

Answers

1. semaphore adjustments from its parent

2. its parent's memory locks

3. timers from its parent

4. All of the above

5. None of the above

16. Which of the following architecture does not support embedded operating syst

Answers

1. ARM

2. AVR32

3. MIPS

4. None of the above

17. _____ provide the information about the existence of files, thei

Answers

1. Memory Table

2. I/O Table

3. File Tables

4. Process Tables

18.
```c
#include <stdio.h>
#include <unistd.h>
int main()
{
     fork();
     fork();
     fork();
     printf(" A New Process Created.");
     return 0;
}
```
How many times Above message "A New Process Created" is printed?

Answers

1. 1

2. 3

3. 8

4. 16

19. sigprockmask() system call does _____.

Answers

1. change the process signal mask.

2. retrive the existing mask

3. Both of the above

4. None of the above

20. Spinlocks are intended to provide _____ only.

Answers

1. Mutual Exclusion

2. Bounded Waiting

3. Aging

4. Progress

21. Which of the following not belong to exec() family?

Answers

1. execv();

2. execvp();

3. execvpe();

4. execlv();

22. msgsnd() returns an integer. which of the following is true statement.

Answers

1. Return value > 1 indicates a correct send.

2. Return value = 0 indicates a correct send.

3. Both of above

4. Return value = -1 indicates an error has occurred

_____ is a technique of gradually increasing the priority of the process

Answers

1. Starvation

2. Waiting queue

3. Aging

4. Non of the above

24. Multiple source files are compiled together to form a single kernel binary :

Answers

1. Micro-kernel

2. Monolithic kernel

3. Modular kernel

4. Hybrid kernel

25. Named pipe or FIFO can be created by _____ command.

Answers

1. pipe

2. mkfifo

3. mkpipe

4. makefifo

26. Bankers algorithm is an example of _____

Answers

1. deadlock prevention

2. deadlock avoidance

3. deadlock detection

4. deadlock recovery

27. Preemption is _____

Answers

1. forced deallocation of the CPU from a program which is executing on the CPU

2. release of CPU by a program after the completing its task

3. forced allotment of CPU by a program to itself

4. a program is terminating itself due to detection of error

28. Which one of the following bootloader is not used by linux?

Answers

1. GRUB

2. LILO

3. NTLDR

4. None of the mentioned

29. Each thread has its own user stack and no kernel stack.

Answers

1. True

2. False

30. Thread synchronization is required because _____

Answers

1. all threads of a process share the same address space

2. all threads of a process share the same global variables

3. all threads of a process can share the same files

4. all of the mentioned

31. Mutex Functionality :

Answers

1. based up on locking mechanism

2. based up on signalling mechanism

3. both A and B

4. None of the above

32. On success, pthread_join() returns :

Answers

1. 0

2. 1

3. Error No

4. None of the above

33. fork() returns non zero value in child process and zero in parent process.

Answers

1. False

2. True

34. Select odd option from below

Answers

1. execl("./cmdline", "cmdline", "one", "two", "three", "four", NULL);

2. char *args[] = { "cmdline", "one", "two", "three", NULL }; execv("./cmdline",

3. execlp("ps", "ps", "-e", "-o", "pid,ppid,cmd");

4. None of the above

35. Which is Fastest IPC mechanism

Answers

1. FIFO

2. Pipe

3. Shared Memory

4. Queue

36. The two ways of aborting processes and eliminating deadlocks are _____

Answers

1. Abort all deadlocked processes

2. Abort all processes

3. Abort one process at a time until the deadlock cycle is eliminated

4. All of the mentioned

37. The segment limit contains the _____

Answers

1. starting logical address of the process

2. starting physical address of the segment in memory

3. segment length

4. none of the mentioned

38. In the Zero capacity queue _____

Answers

1. the queue can store at least one message

2. the sender blocks until the receiver receives the message

3. the sender keeps sending and the messages don't wait in the queue

4. none of the mentioned

39. What will happen if a non-recursive mutex is locked more than once?

Answers

1. Starvation

2. Deadlock

3. Aging

4. Signaling

40. The signal operation of the semaphore basically works on the basic _____ s

Answers

1. continue()

2. start()

3. wakeup()

4. getup()