

FINAL DOS QUIZ

CSE B FROM 02.00-2.30PM ON 10-2-2022

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Consider the following set of processes with the length of the CPU burst given in milliseconds.

Process	Arrival time	Burst time
P1	0	2
P2	2	6
P3	2	5
P4	4	1

Which of the following statement is correct when the processes will be scheduled using SJF?

- ☐ A. P4 completes its execution first.
- ☐ B. P1 will be entered in the second position in Gantt chart.
- ☒ C. P4 will complete its execution after P3.
- ☐ D. P2 will complete its execution after P1.

Which of the following state transitions is not possible? *

- ☐ A. Running to ready.
- ☐ B. Running to waiting.
- ☒ C. Waiting to running.
- ☐ D. Waiting to ready.



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P1	0	2
P2	2	6
P3	2	5
P4	4	1

Which of the following statement is correct when the processes are scheduled using RR scheduling with time quantum 7ms?

- ☐ A. P2 and P4 have same waiting time of 0ms.
- ☐ B. P1 and P4 have same waiting and response time.
- ☒ C. All processes have same average waiting and average response time.
- ☐ D. All of the mentioned.

What approach is used to solve the problem of indefinite blockage of low priority processes in priority scheduling? *

- ☐ A. Convoy effect.
- ☐ B. Dispatch latency.
- ☒ C. Aging.
- ☐ D. All of the mentioned.



What is a race condition? *

- ☒ A. A situation where several processes access and manipulate the same data concurrently, and the outcome of the execution depends on the particular order in which the access takes place.
- ☐ B. A situation where Single process access and manipulate multiple data.
- ☐ C. A situation where No process access and manipulate the same data concurrently.
- ☐ D. A situation where several processes access and manipulate the same data concurrently, and the outcome of the execution does not depend on the particular order in which the access takes place.

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If semaphore $S=0$; and Process P:

```
While(true)
{
    Wait(S);
    Print(S);
    Signal(S);
}
```

What will be the output due to repeated request for execution of P?

- ☐ A. 0000...
- ☐ B. 1111...
- ☒ C. Never be executed
- ☐ D. 1010...



Let a counting semaphore S is initialized to 5. 5 wait operations followed by 7 signal operations are carried out. What is the final value of the semaphore S? *

- ☐ A. 5
- ☒ B. 7
- ☐ C. 10
- ☐ D. 12

If the semaphore value is negative then: *

- ☒ A. Its magnitude is the number of processes waiting on that semaphore.
- ☐ B. No operation can be further performed on it until the signal operation is performed on it
- ☐ C. It is a binary semaphore.
- ☐ D. All of the mentioned

For what purpose a wait for graph is used? *

- ☐ A. Deadlock prevention
- ☐ B. Deadlock avoidance
- ☒ C. Deadlock detection
- ☐ D. Deadlock recovery



According to which of the following condition, a resource can be released only voluntarily by the process holding it, after that process has completed its task *

- ☐ A. Mutual Exclusion
- ☐ B. Hold and wait
- ☒ C. No preemption
- ☐ D. Circular wait

A system contains 5 processes each requiring 2 instances of resource R. What will be the minimum number of instances of R such that there will be no deadlock? *

- ☐ A. 5
- ☒ B. 6
- ☐ C. 7
- ☐ D. 10



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Consider a system with a resource type R and 4 processes. The current resource allocation state is given as follows:

Process	Allocated	Max
P1	4	6
P2	2	8
P3	2	7
P4	3	4

Let R has initially X number of instances. For what minimum value of X the current resource allocation state is safe.

- ☐ A. 11
- ☒ B. 12
- ☐ C. 25
- ☐ D. 10

Which of the following component selects the proper combination of input output bound and CPU bound processes to be kept in main memory? *

- ☒ A. Long term scheduler
- ☐ B. Short term scheduler
- ☐ C. Medium term scheduler
- ☐ D. None of the mentioned



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What state will be observed for the child process by executing the following code and tracing the state of the process?

```
Int main ( )  
{  
  if(fork()>0)  
    sleep(30);  
}
```

- ☒ A. EXIT_ZOMBIE
- ☐ B. TASK_INTERRUPTIBLE
- ☐ C. EXIT_DEAD
- ☐ D. TASK_RUNNING

Let Logical address space size is 32 bytes and physical address space size is 64 bytes and page size is 4 bytes. If the page table entry is 1, 2, 5, 3, 4, 6, 7, 12 then what will be the physical address of the logical address 10? *

- ☐ A. 6
- ☐ B. 16
- ☐ C. 10
- ☒ D. 22



A machine has 128 MB physical memory with page size of 4KB. If the logical address is of 32 bits, then how many page table entries are there in its page table? *

- ☐ A. 2^{12}
- ☒ B. 2^{20}
- ☐ C. 2^{17}
- ☐ D. 2^{32}

Who is the owner of a mailbox? *

- ☒ A. The process that receives messages through the mailbox.
- ☐ B. The process that sends messages to the mailbox.
- ☐ C. The process that can send and receive messages through the mailbox
- ☐ D. None of the mentioned



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Write the output of the following code:

```
int main()  
{  
    int i=5;  
    fork();  
    i=i+1;  
    fork();  
    fprintf(stderr,"%d",i);  
}
```

- ☐ A. 6
- ☐ B. 56
- ☒ C. 6666
- ☐ D. None of the mentioned

Which of the following address binding schemes generate identical logical and physical address? *

- ☐ A. Load time, execution time
- ☐ B. Compile time, execution time
- ☒ C. Compile time, load time
- ☐ D. All of the mentioned



What is stored in each entry of the page table? *

- ☐ A. Page number
- ☐ B. Page offset
- ☒ C. Frame number
- ☐ D. Frame size

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