

Question No : 1 of 26

Marks: 1 (Budgeted Time 1 Min)

Main memory is a large array of -----called memory locations ranging in size from hundreds of thousands to billions.

Answer ( Please select your correct option )

Interrupts

Registers

Digits

Words

Correct Answer Solved By Hadi  
usmanraj20@gmail.com  
03228043306

**Made By: Waqar Siddhu**

Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

In ----- model, there is a kernel thread for every user thread

Many-to-Many

None of the given options

One-to-One

Many-to-One

Correct Answer Solved By Hadi  
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03228043306

**Made By: Waqar Siddhu**

Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

A time interval when a process uses CPU only is called

CPU burst

IO burst

Scheduling

None of the given options

Correct Answer Solved By Hadi  
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03228043306

**Made By: Waqar Siddhu**

Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

The part of the program where the shared memory is accessed is called -----

Answer ( Please select your correct option )

- Buffer
- Critical Section
- Semaphore
- None of the given options

Correct Answer Solved By Hadi  
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**Made By: Waqar Siddhu**

Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

Utilities used for system administration (halt, ifconfig, fdisk, etc.) are stored in \_\_\_\_\_ directory.

Answer ( Please select your correct option )

- /dev
- /boot
- /sbin
- /lib

Correct Answer Solved By Hadi  
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Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

The Swap instruction which is the hardware solution to synchronization problem does not satisfy the \_\_\_\_\_ condition, hence not considered to be a good solution.

Answer ( Please select your correct option )

- Progress
- Bounded waiting
- Mutual exclusion
- None of the given

Correct Answer Solved By Hadi  
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Question No : 7 of 26 Marks: 1 (Budgeted Time 1 Min)

All ..... within a process share the same address space

Answer ( Please select your correct option )

- Threads
  - Processes
  - CPU burst
  - IO Burst
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Correct Answer Solved By Hadi  
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Question No : 8 of 26 Marks: 1 (Budgeted Time 1 Min)

In a Multilevel Queue, the foreground queue has ..... scheduling algorithm and background queue has ..... scheduling algorithm

Answer ( Please select your correct option )

- First Come First Serve, Round-Robin
  - Round-Robin, First Come First Serve
  - Round-Robin, Round-Robin
  - First Come First Serve, First Come First Serve
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Correct Answer Solved By Hadi  
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Question No : 9 of 26 Marks: 1 (Budgeted Time 1 Min)

Priority of a process is ..... to the priority number of the process.

Answer ( Please select your correct option )

- Directly proportional
  - Equal
  - Inversely proportional
  - Greater
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i think but not  
sure

Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

The ..... view is that it is a program that acts as an intermediary between a user of a computer and the computer hardware, and makes the computer system convenient to use.

Answer ( Please select your correct option )

Top-down

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Bottom-up

Alternate

None of the above

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Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

..... commands in Linux helps to create a new directory.

ls

cp

mv

mkdir

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Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

..... scheduler selects the process from the job pool and put them in main memory.

Long term

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Short term

Medium term

Swapper

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Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

.....are used for communication between unrelated processes on a system.

Answer ( Please select your correct option )

- Pipes
- Named pipe (FIFO):
- BSD Sockets
- none of the given options

Correct Answer Solved By Hadi  
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Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

The syntax for output redirection is

- command < output-file
- command >= output-file
- command > output-file
- command =< output-file

Correct Answer Solved By Hadi  
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Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

The shared buffer can be implemented as a circular array with ..... logical pointers.

- Five
- Two
- Three
- Four

Correct Answer Solved By Hadi  
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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

Limit register contains

Answer ( Please select your correct option )

The size of the process

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Starting address of the process

Address of the next instruction

Operand to be fetched

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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following command is used to read data from file named academics?

con < academics

cat < academics

socket > academics

ran > academics

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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ command puts a foreground process into background.

fg

bg

Ctrl z

None of the given

Correct Answer Solved By Hadi  
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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is solution to the problem of indefinite blockage of low-priority processes.

Answer ( Please select your correct option )

- Aging
- Starvation
- Deadlock
- None of the given

Correct Answer Solved By Hadi  
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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

What is the requirement for solution to critical section problem?

- Mutual Exclusion
- Progress
- Bounded Waiting
- All of the given

Correct Answer Solved By Hadi  
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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

Preemptive Shortest Job First scheduling algorithm is best algorithm for minimizing the waiting time for the processes. How can you calculate the average waiting time in preemptive Shortest Job First scheduling algorithm?

Answer ( Please [click here](#) to Add Answer )

Rich text editor toolbar with options for Bold, Italic, Underline, and text color. The text area is currently empty.

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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

Critical section has hardware based or software based solutions. You have to write the structure of the software based solution for the critical section problem.

Answer ( Please [click here to Add Answer](#) )

Rich text editor interface with a toolbar and a large empty text area for the answer.

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

Consider this algorithm for mutual exclusion.

```
Process 1{
while true {
    while (turn == 1)
        ;/* do nothing */
}
}

Process 2 {
while true {
    while (turn == 2)
        ;/* do nothing */
}
}
```

Answer ( Please [click here to Add Answer](#) )

Rich text editor interface with a toolbar and a large empty text area for the answer.

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

```
/* do nothing */
critical section
turn = 2;
other non-critical code
}

/* do nothing */
critical section
turn = 1;
other non-critical code
}
```

Answer ( Please [click here to Add Answer](#) )

Rich text editor interface with a toolbar and a large empty text area for the answer.

**Made By: Waqar Siddhu**

Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

```
other non-critical code
}
other non-critical code
}
```

Does this solution have any problem? If yes then justify your answer.

Answer ( Please [click here to Add Answer](#) )

Rich text editor toolbar with options like Bold, Italic, Underline, and text color.

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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

Process can run either as background process or as foreground process. If the process is running in background and you wanted to move a background process into foreground in a UNIX/LINUX shell. Which command will you use for it?

Answer ( Please [click here to Add Answer](#) )

Rich text editor toolbar with options like Bold, Italic, Underline, and text color.

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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Semaphore is a variable or abstract data type that provides a simple but useful abstraction for controlling access by multiple processes to a common resource in a parallel environment. We can use semaphores to deal with the n-process critical section problem. You have to explain the working of Semaphore Algorithm.

Answer ( Please [click here to Add Answer](#) )

Normal Arial 12 B I U

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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

Considering the resource sharing feature of threads, what do you think is 'resource sharing' an advantage of a thread or disadvantage of a thread. State your answer briefly with strong argument.

Answer ( Please [click here to Add Answer](#) )

Normal Arial 12 B I U

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