



NetExam

Sri Lanka Institute of Information Technology

Question 4

Not yet answered

Marked out of 1.00

Flag question

Given the following set of processes with their arrival times and burst times:

Process	Burst Time	Priority
A	9	5
B	4	3
C	5	1
D	7	2
E	3	4

Calculate the average turnaround time for Priority Scheduling algorithm.

Select one:

- ☐ a. 16.0
- ☐ b. 16.8
- ☐ c. 16.2
- ☐ d. 15.8
- ☒ e. 16.4

Question 23

Not yet answered

Marked out of
1.00

Flag question

Consider the following four processes and their arrival and burst times.

Process	Arrival Time	Burst Time
A	0	8
B	1	3
C	5	1
D	8	2

Compute the average waiting time

Select one:

- ☐ a. 2.5
- ☐ b. 2
- ☐ c. 3.5
- ☐ d. 3
- ☐ e. 4

Consider the following four processes and their arrival and burst times.

Process	Arrival Time	Burst Time
A	0	8
B	1	3
C	5	1
D	8	2

Compute the average turnaround time.

Select one:

- ☐ a. 8
- ☐ b. 6
- ☐ c. 6.5
- ☐ d. 7.5
- ☐ e. 7

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Version 2.0.7.06 August 4, 2021

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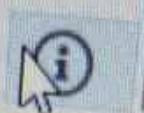
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Summary of your previous attempts

State

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Submitted Sunday, 5 September 2021, 12:28 PM

Review

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Proctor Exit


```
P2      1      3      7      10
P3      5      1      6      7
P4      8      2      4      6
Average Wait Time = 4.25    Average Turnaround Time = 7.75
```

0 -> P1 -> 8 -> P2 -> 11 -> P3 -> 12 -> P4 -> 14

SHORTEST JOB FIRST

```
ads/c | KEY | ARRIVAL | BURST | WAIT | TURNAROUND |
P1      0      8      0      8
P2      1      3     10     13
P3      5      1      3      4
P4      8      2      1      3
Average Wait Time = 3.5    Average Turnaround Time = 7.0
```

0 -> P1 -> 8 -> P3 -> 9 -> P4 -> 11 -> P2 -> 14

SHORTEST REMAINING TIME FIRST


```
| KEY | ARRIVAL | BURST | WAIT | TURNAROUND |
P1      0      8      1      9
P2      1      3     10     13
P3      5      1      2      3
P4      8      2      1      3
Average Wait Time = 3.5    Average Turnaround Time = 7.0
```

0 -> P1 -> 7 -> P3 -> 8 -> P1 -> 9 -> P4 -> 11 -> P2 -> 14

ROUND ROBIN QT=3

```
first S | KEY | ARRIVAL | BURST | WAIT | TURNAROUND |
first'  | P1      0      8      4     12
aning   | P2      1      3      2      5
QT={}   | P3      5      1      4      5
avg an: | P4      8      2      4      6
Average Wait Time = 3.5    Average Turnaround Time = 7.0
```

0 -> P1 -> 3 -> P2 -> 6 -> P1 -> 9 -> P3 -> 10 -> P1 -> 12 -> P4 -> 14

~/Downloads/CPU-Scheduling-Calculation-master via  v2.7.18

Consider the following statements regarding operating system:

- A. Most of the system calls are implemented using the assembly language and C language.
- B. Current operating systems are based on the modules concept
- C. Modern operating systems are interrupt driven
- D. Modern operating systems are always real time

Which of the following is correct:

Select one:

- ☐ a. Only A. and B. are correct.
- ☐ b. Only A, B and C. are correct.
- ☐ c. Only A. and C. are correct.
- ☐ d. All are correct
- ☐ e. None of the above

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Consider the following four processes and their arrival and burst times.

Process	Arrival Time	Burst Time
A	0	8
B	1	3
C	5	1
D	8	2

Compute the average turnaround time.

Select one:

- ☐ a. 6.5
- ☐ b. 6
- ☐ c. 7.5
- ☐ d. 7
- ☐ e. 8

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The processes are waiting in the ready queue before it is selected by
Find the suitable item for the black space.

Select one:

- ☒ a. Short term scheduler
- ☐ b. Medium term scheduler
- ☐ c. Swapper
- ☐ d. Long term scheduler
- ☐ e. Pager

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What is the operating system structure which is used by most of the

Select one:

- ☒ a. Modules
- ☐ b. Layered architecture
- ☐ c. Micro Kernel
- ☐ d. Object oriented
- ☐ e. Monolithic structure

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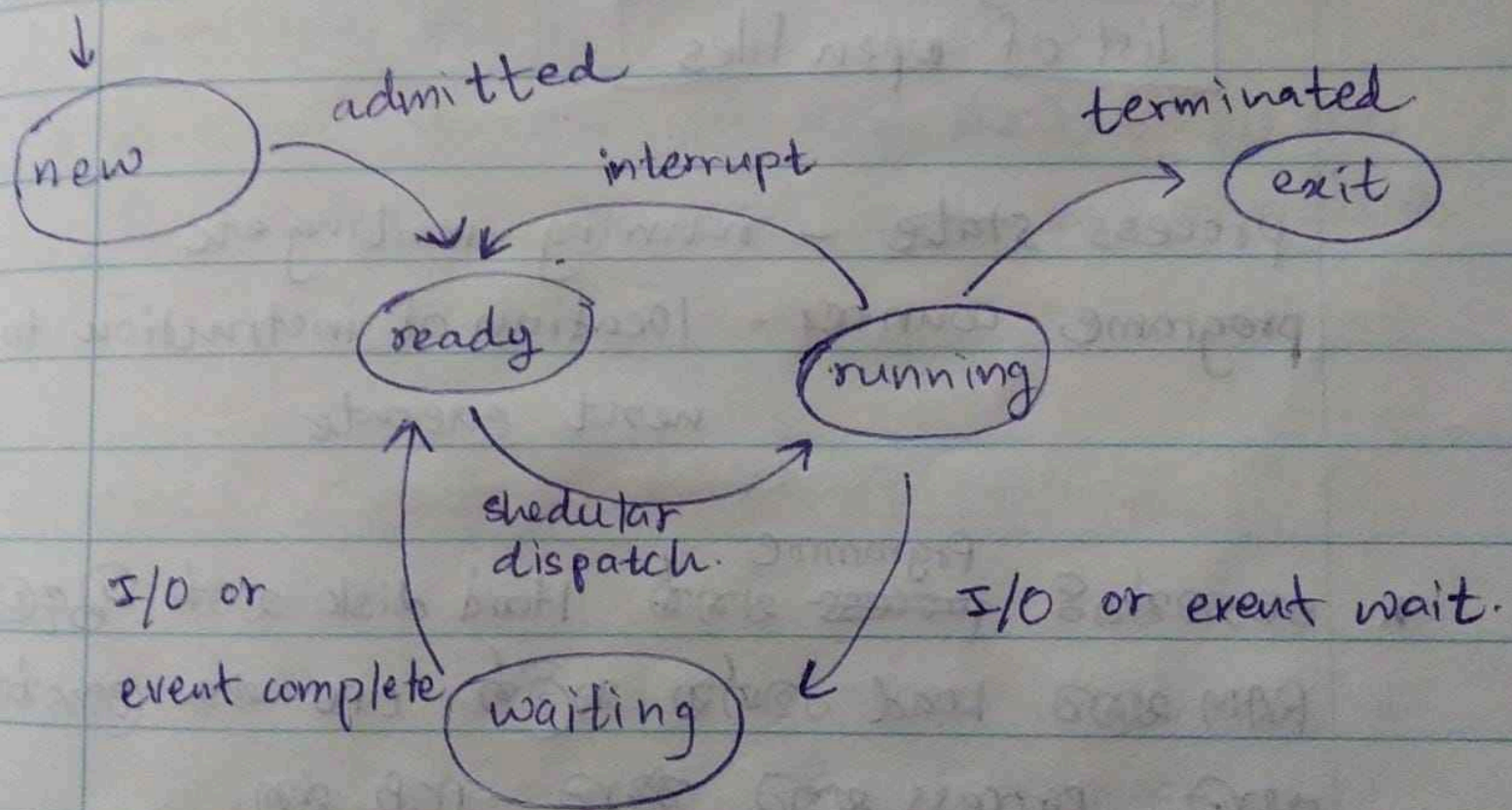
Sri Lanka Institute of Information Technology

What is the operating system structure which is used by most of the modern OS?

Select one:

- ☐ a. Modules
- ☐ b. Layered architecture
- ☐ c. Micro Kernel
- ☒ d. Object oriented
- ☐ e. Monolithic structure

load to RAM



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The state of a process after it encounters an I/O instruction is

Select one:

- ☒ a. Ready
- ☐ b. Waiting
- ☐ c. Idle
- ☐ d. Run
- ☐ e. New

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When a process is blocking for IO devices then it is in the

Select one:

- ☐ a. Ready state
- ☒ b. waiting state
- ☐ c. Terminated state
- ☐ d. Running state
- ☐ e. New state

Select the system call which can be use to avoid the zombie processes in the system.

Select one:

- ☐ a. close()
- ☒ b. _wait()
- ☐ c. fork()
- ☐ d. sleep()
- ☐ e. exit()

Next



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g question

When a process is blocking for IO devices then it is in the

Select one:

- ☒
- ☐
- ☐
- ☐
- ☐

- a. Ready state
- b. waiting state
- c. Terminated state
- d. Running state
- e. New state



Consider the following four processes and their arrival and burst times.

Process	Arrival Time	Burst Time
A	0	8
B	1	3
C	5	1
D	8	2

Compute the average waiting time

Select one:

- ☐ a. 4
- ☐ b. 2
- ☐ c. 3
- ☐ d. 2.5
- ☒ e. 3.5



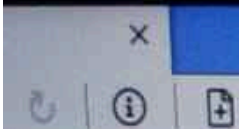
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the following four process states: ready, waiting, running, terminated. For the following state a process will be moved. 'A divide by zero instruction is executed in a process

one:

- ☐ a. Running to new
- ☐ b. Running to waiting
- ☐ c. Running to terminate
- ☒ d. Running to running
- ☐ e. Running to ready



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When a process is blocking for IO devices then it is in the

Select one:

- ☐ a. Ready state
- ☐ b. New state
- ☐ c. Terminated state
- ☐ d. Running state
- ☒ e. Waiting state



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Select the incorrect statement.

Select one:

- ☐ a. Every process follows the CPU-I/O burst cycle.
- ☒ b. First come first serve is a preemptive scheduling algorithm.
- ☐ c. Dispatch latency is the time taken by the dispatcher to stop one process and start another.
- ☐ d. CPU bound process needs less I/O time.
- ☐ e. Context switch is occurred when one process is suspended and another is started.

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The processes are waiting in the ready queue before it is selected by
Find the suitable item for the black space.

Select one:

- ☐ a. Long term scheduler
- ☒ b. Short term scheduler
- ☐ c. Swapper
- ☐ d. Medium term scheduler
- ☐ e. Pager

Test Exam

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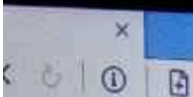
Consider the following statements for interrupt handling:

- A. Run the Interrupt Service Routing (ISR)
- B. Current state is saved in Process Control Block (PCB)
- C. Interrupt received through the Interrupt Request Line (IRL)
- D. Resume the suspended process
- E. operating system suspend the current process
- F. Access the Interrupt Vector (IV)

Find the correct order the interrupt handling:

Select one:

- ☒ a. C, E, B, F, A, D.
- ☐ b. C, B, E, F, A, D.
- ☐ c. C, E, B, A, F, D.
- ☐ d. C, E, F, B, A, D.
- ☐ e. None of the above



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If the kernel is single threaded, then any user level thread performing a blocking system call will :

Select one:

- ☐ a. cause the entire process to run along with the other threads
- ☐ b. cause the thread to block with the other threads running
- ☒ c. cause the entire process to block even if the other threads are available to run
- ☐ d. cause the main thread to block and others are running
- ☐ e. None of these

Next page

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A process which has just terminated but has yet to release its resources is called

Select one:

- ☒ a. A suspended process
- ☐ b. A zombie process
- ☐ c. A blocked process
- ☐ d. A terminated process
- ☐ e. An orphan process

Which scheduling algorithm cannot be implemented?

Select one:

- ☐ a. FCFS
- ☐ b. RR
- ☒ c. SJF
- ☐ d. Priority based
- ☐ e. Guaranteed scheduling

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Which is not a service of the operating system?

Select one:

- ☐ a. File-system manipulation
- ☐ b. Process communication
- ☐ c. Resource allocation
- ☒ d. Accounting of the resource usage
- ☐ e. Virus detection

The CPU protection is implemented using

Select one:

- ☐ a. Limit register
- ☐ b. Mode bit
- ☒ c. Timing
- ☐ d. Non privileged instructions
- ☐ e. Base register

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The total time taken to suspend one process and resume another process because of interrupt is called as

Select one:

- ☐ a. Swapping time
- ☐ b. PCB time
- ☐ c. Interrupt handling time
- ☒ d. Dispatch latency
- ☐ e. Context switch time

Next page

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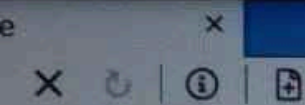
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Consider the following statements regarding the processes and threads:

- a) Processes creation is faster than thread creation.
- b) Inter thread communication is much faster than the inter process communication.
- c) User level threads are slower than the kernel level threads.

Select one:

- ☐ a. Only a) is correct.
- ☐ b. Only b) is correct.
- ☒ c. Only b) and c) are correct.
- ☐ d. All are correct
- ☐ e. None of the above



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Question

Processes are moving among different states while they are executing in the computer. Select the transition which is not possible between two states.

Select one:

- ☒ a. Ready to waiting
- ☐ b. Running to terminate
- ☐ c. Running to ready
- ☐ d. Running to waiting
- ☐ e. Waiting to ready



Next

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Given the following set of processes with their arrival times and burst times:

Process	Arrival Time	Burst Time
A	0	8
B	1	6
C	3	3
D	5	2
E	6	4

Calculate the average turnaround time for First Come First Serve algorithm.

Select one:

- ☐ a. 13.6
- ☐ b. 13.4
- ☐ c. 13.2
- ☐ d. 12.8
- ☐ e. 13.0



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15

Not answered
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Flag question

A thread

Select one:

- ☒ a. Is a lightweight process where the context switching is slow
- ☐ b. Is an independent sequence of execution of a program code
- ☐ c. Is independent from another thread
- ☐ d. All of the above
- ☐ e. None of the above

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When a process is interrupted by any interrupt signal then it moves to

Select one:

- ☐ a. Waiting queue
- ☐ b. Running state
- ☐ c. New state
- ☐ d. Ready state
- ☒ e. Terminated state

Dispatcher selects the process from

Select one:

- ☐ a. Device queue
- ☐ b. Dispatch queue
- ☒ c. Ready queue
- ☐ d. Waiting queue
- ☐ e. IO Queue

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Consider the following statements regarding OS structures:

- a) Module architecture is used by most of the modern Operating systems.
- b) Micro kernel provides better reliability.
- c) Layered architecture is less efficient.

Select one:

- ☐ a. Only a) is correct.
- ☐ b. Only b) is correct.
- ☐ c. Only a) and b) are correct.
- ☒ d. All are correct
- ☐ e. None of the above



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20

answered

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question

The CPU protection is implemented using

Select one:

- ☐ a. Non privileged instructions
- ☐ b. Limit register
- ☐ c. Mode bit
- ☐ d. Base register
- ☒ e. Timer

Dispatcher selects the process from

Select one:



a. Ready queue

b. Waiting queue

c. IO Queue

d. Device queue

e. Dispatch queue

Answered
out of

Flag question



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Consider the following statements regarding the processes and threads:

- a) Processes creation is faster than thread creation.
- b) Inter thread communication is much faster than the inter process communication.
- c) User level threads are slower than the kernel level threads.

Select one:

- ☐ a. Only a) is correct.
- ☒ b. Only b) is correct.
- ☐ c. Only b) and c) are correct.
- ☐ d. All are correct
- ☐ e. None of the above

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The primary difference between user-level threads and kernel threads is

Select one:

- ☒ a. User level threads do not use OS services via system calls, where kernel threads require system calls.
- ☐ b. User level threads are independent of each other, whereas kernel threads can write into each other's memory space.
- ☐ c. User level threads require memory management where kernel threads do not.
- ☐ d. All of the above
- ☐ e. None of the above

Exam

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What is the ready state of a process?

Select one:

- ☐ 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. When process is ready to execute an IO operation
- ☐ e. None of the above



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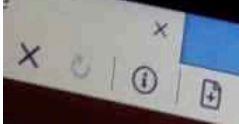
Consider the following statements regarding sockets:

- A. Socket is a communication end point with IP address and port number.
- B. Each port number has 16 bits number.
- C. Port numbers below 1024 are already reserved for servers
- D. Every client program needs a port number for the communication.

Which of the following is correct:

Select one:

- ☐ a. Only A. is correct.
- ☐ b. Only B and C. are correct.
- ☐ c. Only A. and C. are correct.
- ☒ d. All are correct
- ☐ e. None of the above



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Processes are moving among different states while they are executing in the computer. Select the transition which is not possible between two states.

Select one:

- ☐ a. Running to ready
- ☐ b. Running to terminate
- ☐ c. Waiting to ready
- ☐ d. Running to waiting
- ☒ e. Ready to waiting

Next page

36
41

Select the incorrect statement.

Select one:

- ☐ a. Process needs more resources like CPU time, RAM space, files, PCB and IO devices.
- ☐ b. Processes are active entity and programs are passive entity.
- ☒ c. Program counter is a register which is used to store the address of the memory location where the next instruction is stored.
- ☐ d. Thread is a light weight process that can share the memory.
- ☐ e. Process control block is stored in the user memory while process is stored in the kernel memory.

Given the following set of processes with their arrival times and burst times:

Process	Arrival Time	Burst Time
A	0	8
B	1	6
C	3	3
D	5	2
E	6	4

Calculate the average waiting time for First Come First Serve algorithm.

Select one:

- ☐ a. 8.4
- ☐ b. 8.0
- ☒ c. 8.6
- ☐ d. 8.8
- ☐ e. 8.2

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Time taken to suspend one process and resume another process because of interrupt is called as

one:

- ☐ a. Interrupt handling time
- ☐ b. Swapping time
- ☐ c. PCB time
- ☐ d. Context switch time
- ☒ e. Dispatch latency



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Given the following set of processes with their arrival times and burst times:

Process	Burst Time	Priority
A	9	5
B	4	3
C	5	1
D	7	2
E	3	4

Calculate the average waiting time for Priority Scheduling algorithm.

Select one:

- ☐ a. 10.6
- ☐ b. 10.0
- ☒ c. 10.4
- ☐ d. 10.8
- ☐ e. 10.2

The total time taken to suspend one process and resume another process because of interrupt is called as

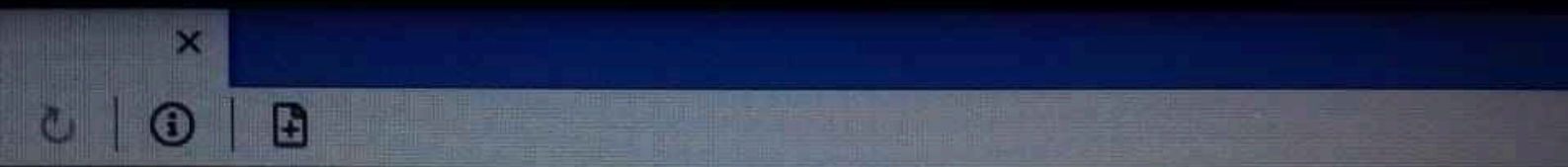
Select one:

- ☐ a. Interrupt handling time
- ☐ b. Swapping time
- ☐ c. PCB time
- ☐ d. Context switch time
- ☒ e. Dispatch latency

The processes are waiting in the ready queue before it is selected by
Find the suitable item for the black space.

Select one:

- ☐ a. Long term scheduler
- ☒ b. Short term scheduler
- ☐ c. Medium term scheduler
- ☐ d. Swapper
- ☐ e. Pager



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What is the operating system structure which is used by most of the modern OS?

Select one:

- ☐ a. Layered architecture
- ☐ b. Object oriented
- ☐ c. Monolithic structure
- ☐ d. Micro Kernel
- ☒ e. Modules





Select the incorrect statement:

Select one:

- ☐ a. When the interrupt is occurred the current process state will be saved in PCB.
- ☐ b. Interrupt generated by CPU itself is called as trap.
- ☐ c. Interrupt vector contains address of the interrupt service routine.
- ☒ d. Interrupts can be generated only by timer with CPU.
- ☐ e. Interrupt vector will be installed in physical memory.

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Consider the following statements related to the CPU scheduling:

- a) Medium term scheduler is available in Time shared system.
- b) Short term scheduler controls the degree of multiprogramming.
- c) Long term scheduler is faster than the short term scheduler.

Select one:

- ☒ a. Only a) is correct.
- ☐ b. Only b) is correct.
- ☐ c. Only a) and b) are correct.
- ☐ d. All are correct.
- ☐ e. None of the above.

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A thread

Select one:

- ☐ a. Is a lightweight process where the context switching is slow
- ☒ b. Is an independent sequence of execution of a program code
- ☐ c. Is independent from another thread
- ☐ d. All of the above
- ☐ e. None of the above

Question

- Consider the following statements related to the CPU scheduling:
- a) Medium term scheduler is available in Time shared system.
 - b) Short term scheduler controls the degree of multiprogramming.
 - c) Long term scheduler is faster than the short term scheduler.
- Select one:
- ☒ a. Only a) is correct.
 - ☐ b. Only b) is correct.
 - ☐ c. Only a) and b) are correct.
 - ☐ d. All are correct.
 - ☐ e. None of the above.



Select the non-privileged Instruction

Select one:

- ☐ a. Change the memory content
- ☐ b. Change the program counter
- ☒ c. Get the system time
- ☐ d. Change the base register
- ☐ e. Turn off the interrupt



Select the incorrect statement.

Select one:

- ☐ a. Threads are not independent since they share the memory.
- ☐ b. Context switch time between threads is faster than context switch time between processes.
- ☐ c. Pthread is a thread library which provides the specification to create and manage threads.
- ☒ d. Kernel level threads are faster than user level threads.
- ☐ e. User level threads are managed by the thread library while kernel threads are managed by system call

Next page

Select the incorrect statement.

Select one:

- ☐ a. Thread is a light weight process that can share the memory.
- ☐ b. Program counter is a register which is used to store the address of the memory location where the next instruction is stored.
- ☒ c. Process control block is stored in the user memory while process is stored in the kernel memory.
- ☐ d. Process needs more resources like CPU time, RAM space, files, PCB and IO devices.
- ☐ e. Processes are active entity and programs are passive entity.

Next page

Processes are moving among different states while they are executing in the computer. Select the transition which is not possible between two states.

Select one:

- ☐ a. Running to waiting
- ☐ b. Running to terminate
- ☐ c. Running to ready
- ☐ d. Ready to waiting
- ☒ e. Waiting to ready

Consider the following four processes and their arrival and burst times.

Process	Arrival Time	Burst Time
A	0	8
B	1	3
C	5	1
D	8	2

Compute the average turnaround time.

Select one:

- ☐ a. 6
- ☐ b. 8
- ☐ c. 7
- ☐ d. 7.5
- ☐ e. 6.5



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When a process is interrupted by any interrupt signal then it moves to

Select one:

- ☐ a. Waiting queue
- ☐ b. Terminated state
- ☐ c. Ready state
- ☐ d. Running state
- ☐ e. New state

Question 4

Not yet answered

Marked out of
1.00

Flag question

Consider the following statements regarding the processes and threads:

- a) User level threads are invisible to the kernel.
- b) One to one model in threads is used by the most modern operating systems.
- c) In thread cancellation, asynchronous cancellation is better than the deferred cancellation.

Select one:

- ☐ a. Only a) is correct.
- ☐ b. Only b) is correct.
- ☐ c. Only a) and b) are correct.
- ☐ d. All are correct
- ☒ e. None of the above

Consider the following statements regarding the processes scheduling:

- a) Short term scheduler is faster than the medium term scheduler.
- b) Context switching between kernel level threads are faster than the user level threads.
- c) Ready queue is implemented with first in first out policy.

Select one:

- ☒ a. Only a) is correct.
- ☐ b. Only b) is correct.
- ☐ c. Only b) and c) are correct.
- ☐ d. All are correct
- ☐ e. None of the above

What is the ready state of a process?

Select one:

- ☒ 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. When process is ready to execute an IO operation
- ☐ e. None of the above



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When the computer is starting up, it follows the instructions of the BIOS program. The BIOS settings are stored in

Select one:

- ☐ a. Hard Disk
- ☐ b. L1 Cache
- ☒ c. CMOS
- ☐ d. RAM
- ☐ e. ROM



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Select the system call which can be use to avoid the zombie processes in the system.

Select one:

- ☐ a. close()
- ☐ b. sleep()
- ☐ c. exit()
- ☐ d. fork()
- ☒ e. wait()





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Question 1

Not yet answered

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1.00

Flag question

Select the incorrect statement.

Select one:

- ☐ a. Pthread is a thread library which provides the specification to create and manage threads.
- ☒ b. Kernel level threads are faster than user level threads.
- ☐ c. Threads are not independent since they share the memory.
- ☐ d. User level threads are managed by the thread library while kernel threads are managed by system call
- ☐ e. Context switch time between threads is faster than context switch time between processes.

Switching the CPU to another Process requires to save state of the old process and loading new process state is called as

Select one:

- ☐ a. Process Blocking
- ☒ b. Context Switch
- ☐ c. Time Sharing
- ☐ d. Process loading
- ☐ e. None of the above

Next page

The address of the next instruction to be executed by the current process is provided by the,

Select one:

- ☐ a. CPU registers
- ☐ b. Cache
- ☒ c. Program counter
- ☐ d. Process stack
- ☐ e. None of the above



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Which scheduling algorithm cannot be implemented?

Select one:

- ☐ a. FCFS
- ☐ b. RR
- ☒ c. SJF
- ☐ d. Priority based
- ☐ e. Guaranteed scheduling

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A process can be terminated due to

Select one:

- ☐ a. normal exit
- ☐ b. Fatal Error
- ☐ c. Killed by another process
- ☒ d. All of the above
- ☐ e. None of the above

Consider the following statements related to the Operating System:

- a) The main goal of SPOOLING is to maximize the utilization of IO devices and CPU.
- b) The main goal of the Multiprogramming is to maximize the CPU utilization.
- c) The main goal of the Time sharing system is to maximize the resource sharing.

Select one:

- ☐ a. Only a) is correct.
- ☐ b. Only b) is correct.
- ☐ c. Only a) and c) are correct.
- ☐ d. All are correct
- ☐ e. None of the above

When a process is interrupted, its details are saved in the PCB and other process details are reloaded from the PCB. This process is called as

Select one:

- ☐ a. Waiting
- ☒ b. Context switch
- ☐ c. Dispatching
- ☐ d. Interrupting
- ☐ e. Swapping

Next page

Which scheduler move the process from new state to ready state?

Select one:

- ☐ a. CPU scheduler
- ☒ b. Long term scheduler
- ☐ c. Short term scheduler
- ☐ d. Medium term scheduler
- ☐ e. None of the above