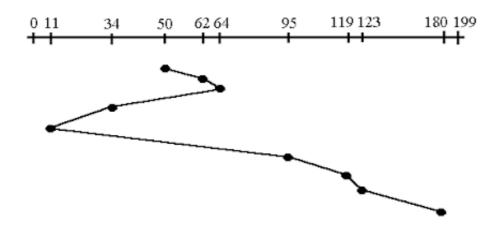
## **Operating System Test**

Email address *
ashok.kumar.a380@gmail.com
Enter your roll number *
E1ECSE029
Enter Your Name *
ashok kumar
MCQs
Which of the following is not a valid state of a process
New
Old
Running
Waiting
O Walking

A PCB is a
O variable
Data Structure
A secondary storage section
Memory block
How does middleware resolves the heterogeneity problem
By adding a stub software for every system
By agreeing upon a common standard of data
By forcing all clients to follow a common standard
None of the above
Which of the following algorithm(s) follow migrating and non-replicated scheme for data transfer in a Distributed System.
Migration
Central Server
Full Replication
Read Replication
None of the above

The following figure could represent the head movement of which of the following disk scheduling algorithms. (3 Marks)



- SSTF
- FCFS
- SCAN
- O C SCAN
- O LOOK
- Combination of SSTF and SCAN
- Could be SSTF or FCFS
- Could be FCFS or C SCAN
- Could be SSTF or Look
- Could be Look or SCAN
- Could be C Scan or LOOK
- Could be C SCAN or SSTF
- None of the above

Which of the following is not a valid capability type?
Data
Infrastructure
Platform
Software
None of the above
The code available at the link ( <a href="https://drive.google.com/file/d/1ltFTatVV9CHNe7H_V258HajvMjs401tr/view?">https://drive.google.com/file/d/1ltFTatVV9CHNe7H_V258HajvMjs401tr/view?</a>
<u>usp=sharing</u> ) could represent: (3 Marks)
C SCAN algorithm
SCAN algorithm
FCFS algorithm
© C LOOK algorithm
C LOOK algorithm
SSTF algorithm

Paging based memory management could suffer from which of the following fragmentations?
O Internal fragmentation
External fragmentation
Both of the above
None of the above
Algorithms that move data blocks suffer from thrashing. This definitely means:
O Poor locality of reference
O Poor choice of algorithm
O Poor network capabilities
None of the above
At least two of the above
At most two of the above

Which of the following operations are not idempotent in REST
○ GET
O PUT
O DELETE
O POST
There are two process, both the processes have their segment map tables. If there is an entry with the same segment number, it means:  The segment will become invalid soon,
The segments are shared.
The two processes will be blocked soon.
All of the above.
None of the above.

Processes waiting for CPU access are kept in	
Ready queue	
O Process queue	
O To be executed queue	
O Job queue	
None of the above	
Which of the follow could be classified as a system level software	
Operating system	
O Interpreter	
C Library utilities	
All of the above	

Suppose you are executing a piece of code in OS. There are routines to handle unusual errors. These routines will
Be Called frequently.
Almost never be called
Called periodically
anything can happen
None of the above
Segmented memory management is more complex compared to paging based algorithms because
algorithms because
algorithms because  Segments are a better alternative than pages.
algorithms because  Segments are a better alternative than pages.  Pages are a better alternative to segments.
<ul> <li>algorithms because</li> <li>Segments are a better alternative than pages.</li> <li>Pages are a better alternative to segments.</li> <li>Segments generally have variable length</li> </ul>

Which service model offers least security
laaS
PaaS
SaaS
All offer the same level of security
None of the above
The logical addresses are 32 bits long and the physical addresses are 48 bits long. The memory is word addressable. The page size is 16KB and the word size is 4B. The Translation Look-aside Buffer (TLB) in the address translation path has 256 valid entries. At most how many distinct virtual addresses can be translated

without any TLB miss? (2 Marks)

- 1 \* 2^20
- 8 \* 2^20
- 4 \* 2^20

A system with a total of 128 MB memory available. This memory space is partitioned into 16 MB each. Assume 7 processes are requesting memory usage with sizes as indicated as: [12 MB, 14MB, 13 MB, 17MB, 19MB, 11MB, 8 MB]. . The memory utilization ratio (which can be obtained on dividing the total allocated memory by the total requested memory) is (2 Marks)

- 63.87
- 65.92
- 60.59
- 61.70

At a particular time, the value of semaphore is 17. Then 20 P, 'x V', 'y P' and 10 V operations are completed. Given that the total number of P operations are 2 times of the V operations. If the final value of semaphore is 5, then the value of 'x' and 'y' will be (2 Marks)

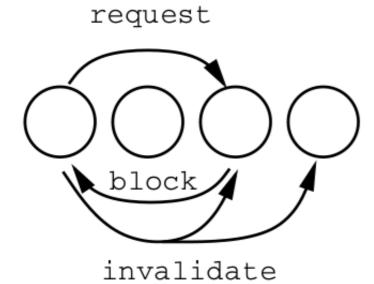
- 3, 5
- 2,4
- 3, 6
- 4, 5

Consider a machine with a byte addressable main memory of size 64 KB and block size is of 8 B. The main memory is mapped to a direct mapped cache consisting of 32 lines. The line number of the following addresses stored in the cache memory are i. 0001 0001 0011 1011 ii. 1100 0011 0111 01
Line 3 and Line 6
Line 7 and Line 14
Line 5 and Line 9
Line 10 and Line 15
Which of the following is not a valid queue
Which of the following is not a valid queue  Process queue
O Process queue
Process queue  PCB Queue
Process queue  PCB Queue  Ready queue

In Linux, a utility to check current memory usage is:
○ LTOP
HTOP
O PS X
one of the above
all of the above
The module that consists of multiple procedures, sequence responsible for initialization, and some local data is:
initialization, and some local data is:
initialization, and some local data is:  Semaphore
initialization, and some local data is:  Semaphore  Monitor

A user can explicitly perform transition into which of the following state(s):
New
Block
Running
None of the above
All of the above
The following figure (Figure 2) could represent the operation of which of the following algorithms (2 Marks)
Full Replication
Read Replication
Migration
The figure is not correct
None of the above





block

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