Started on	Monday, 27 December 2021, 2:28 AM
State	Finished
Completed on	Monday, 27 December 2021, 2:38 AM
Time taken	10 mins 48 secs
Grade	**5.50** out of 10.00 (**55**%)

Question **1**

Not answered

Marked out of 1.00

Setting the dirty bit causes what action to be performed on a block: (select the best answer)

Select one:
- a.   It is deleted because it is no longer consistent
- b.   It flushes or writes the block out to the disk
- c.   Refreshes the data by re-reading the block
- d.   It cleans the cache by flushing all data from the cache

Question **2**

Correct

Mark 1.00 out of 1.00

Which of the following is NOT one of the buffer pool heuristics defined in the text : (select the best answer)

Select one:
- a.   FIFO
- b.   LIFO   ✔
- c.   LRU
- d.   LFU

Question **3**

Correct

Mark 1.00 out of 1.00

A technique that allows a programmer to use more main memory than exists in the computer is called: (select the best answer)

Select one:

- a.   Buffer cache
- b.   Random access memory
- c.   Secondary storage
- d.   Virtual memory   ✔

Question **4**

Partially correct

Mark 0.50 out of 1.00

Internal Fragmentation refers to: (select the best answer)

Select one:

- a.   Space that is left empty because records do not fit evenly into a sector   ☑
- b.   Space allocated to a file that is not physically adjacent on the disk drive
- c.   Space that is left empty because records do not fit evenly into a sector or Space allocated to a file that is not physically adjacent
- d.   None of the options

Question **5**

Incorrect

Mark 0.00 out of 1.00

Data is stored within the disk drive on the: (select the best answer)

Select one:

- a.   Spindle
- b.   Platter
- c.   Cylinder
- d.   Sector   ✖   The sector is a structure within the disk that is used to organize data. The actual data is stored on the platter using magnetic bits of information.

Question **6**

Correct

Mark 1.00 out of 1.00

The process of storing blocks of data in main memory after reading from disk is referred to as:

Select one:

- a.   Buffering ✔
- b.   Hashing
- c.   Pooling
- d.   Indexing

Question **7**

Correct

Mark 1.00 out of 1.00

A characteristic of RAM (random access memory) is that it is persistent and is not lost when the power to a computer is turned off.

Select one:

- True
- False ✔

Question **8**

Correct

Mark 1.00 out of 1.00

Secondary storage is characterized by the following:

Select one:

- a.   It is persistent ✔
- b.   It is faster than primary storage
- c.   It is volatile
- d.   It is more expensive than primary storage

Question **9**

Not answered

Marked out of 1.00

An algorithm that breaks a file to be sorted in smaller files called runs which are sorted and eventually put back together resulting in a sorted file is called:

Select one:

- a.   Quicksort algorithm
- b.   Replacement sort algorithm
- c.   An indexed key sort algorithm
- d.   Mergesort algorithm

Question **10**

Not answered

Marked out of 1.00

A significant benefit to using an index to hold and sort keys to a file is:

Select one:

- a.   Smaller keys require less I/O
- b.   The entire sort can always be completed in memory
- c.   The head of the disk drive does not need to move
- d.   There is no seek time added to the latency of I/O operations

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