Started on	Friday, 29 April 2022, 11:05 AM
State	Finished
Completed on	Friday, 29 April 2022, 11:12 AM
Time taken	6 mins 36 secs

Question **1**

Complete

Marked out of 1.00

_____ is the time from when a read or write request is issued to when data transfer begins.

- ◉ Access time

- ○ Average seek time

- ○ Seek time

- ○ Rotational latency time

Question **2**

Complete

Marked out of 1.00

A measure that computes the reliability of the disk is called,

- ○ Mean time to success

- ○ Mean time to result

- ◉ Mean time to failure

- ○ Mean time to access

Question **3**

Complete

Marked out of 2.00

For keeping the variable length records in the block, the slotted page structure is commonly used. There is a header at the beginning of each block, containing the following information:

I.) The number of record entries in the header

II.) The end of free space in the block

III.) An array whose entries contain the location and size of each record.

If a record is deleted then, which of the above information will change

- ○ II and III only

- ◉ I, II and III only

- ○ I and II only

- ○ I and III only

Question **4**

Complete

Marked out of 2.00

Which of the following problems need to be solved by the technique for implementing variable-length record.

I.) How to represent a single record in such a way that individual attribute can be extracted easily

II.) How to follow the sequence of the record in the file

III.) How to fetch the record from the Buffer

- ○ II and III both

- ◉ I and II both

- ○ I only

- ○ II only

Question **5**

Complete

Marked out of 1.00

The time for repositioning the arm is called the _____ and it increases with the distance that the arm must move.

○ Access time

◉ Average seek time

○ Seek time

○ Rotational latency time

Question **6**

Complete

Marked out of 1.00

To have a file hold a list, it is necessary to

○ Identify the records in the list

○ Decide which fields will be used as sort or index keys

○ All of the mentioned

◉ Identify the name, width and type of the fields of each record.

Question **7**

Complete

Marked out of 2.00

In the fixed length record file, sometimes we keep the header at the beginning of the file. The key information that header keeps is,

I.) The address of the first record whose contents are deleted

II.) The array of addresses of all the records in the file

III.) The array of addresses and size of all the records in the file

IV.) The offset and length for different attributes in the record

○ I Only

◉ I and II Only

○ II Only

○ II and III Only

○ IV Only

○ I, II and III Only

Question **8**

Complete

Marked out of 1.00

Disk I/O operation is performed in units of,

○ One file

◉ One block

○ One sector

○ One record

Question **9**

Complete

Marked out of 1.00

Variable length record arise in database system file due to storage of multiple record types in a file. Here multiple record type means,

◉ Records with variable length attributes

○ Records from different relations

○ Records having attributes of multiple types

○ Records having multiple attributes

Question **10**

Complete

Marked out of 1.00

If you want to read the records from two different relations using a single I/O operation, which file organization will you prefer?

○ Heap File organization

◉ Sequential File organization

○ Hash File Organization

○ Clustering File Organization

Question **11**

Complete

Marked out of 1.00

The disk controller uses _____ at each sector to ensure that the data is not corrupted on data retrieval.

○ Checksum

○ ECC

○ ErrorCode

⦿ Parity

Question **12**

Not answered

Marked out of 1.00

Which RAID level gives block level striping with single distributed parity?

○ RAID 5

○ RAID 6

○ RAID 1

○ RAID 2

◄ Quiz3 (Section 2)

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Quiz5_Section2 (6th May 2022) ►