1. In internal fragmentation, memory is internal to a partition and

a) is being used

b) is not being used

c) is always used

d) none of the mentioned

2. A solution to the problem of external fragmentation is :

a) compaction

b) larger memory space

c) smaller memory space

d) none of the mentioned

10. When the memory allocated to a process is slightly larger than the process, then :

...a) internal fragmentation occurs

b) external fragmentation occurs

c) both internal and external fragmentation occurs

d) neither internal nor external fragmentation occurs

2. Which of the following condition is required for deadlock to be possible?

a) mutual exclusion

b) a process may hold allocated resources while awaiting assignment of other resources

c) no resource can be forcibly removed from a process holding it

d) all of the mentioned

5. Which one of the following is the deadlock avoidance algorithm?

a) banker’s algorithm

b) round-robin algorithm

c) elevator algorithm

d) karn’s algorithm

2. In operating system, each process has its own

a) address space and global variables

b) open files

c) pending alarms, signals and signal handlers

d) all of the mentioned

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;DB:::::::::::::::::::::::::::::::::::::

Q. The file organization that provides very fast access to any arbitrary record of a file is

(A) Ordered file (

B)Unordered file

(C) Hashed file

(D) B-tree

Q: Which of the following operation is used if we are interested in only certain columns of a

(A) PROJECTION

(B) SELECTION

(C) UNION

(D) JOIN

Q.80 Consider the join of a relation R with relation S. If R has m tuples and S has n tuples,then the maximum size of join is:(

A) mn(

B) m+n

(C) (m+n)/2

(D) 2(m+n)

For a weak entity set to be meaningful, it must be associated with another entity set, called the

a) Identifying set

b) Owner set

c) Neighbour set

d) Strong entity set

The database design that consists of multiple tables that are linked together through matching data stored in each table is called

a) Hierarchical database

b) Network database

c) Object oriented database

d) Relational database

Bitmap indices are a specialized type of index designed for easy querying on \_\_\_\_\_\_\_\_\_\_\_

a) Bit values

b) Binary digits

c) Multiple keys

d) Single keys

Consider attributes ID, CITY and NAME. Which one of this can be considered as a super key?

a) NAME

b) ID

c) CITY

d) CITY, ID

';;;;;;;;;;;;;;;;;;;-------------DS and Algo;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

For a binary search algorithm to work, it is necessary that the array (list) must be

A - sorted

B - unsorted

C - in a heap

D - popped out of stack

The following formula will produce

F n = Fn-1 + Fn-2

A - Armstrong Number

B - Fibonacci Series

C - Euler Number

D - Prime Number

In C programming, when we remove an item from bottom of the stack, then −

A - The stack will fall down.

B - Stack will rearranged items.

C - It will convert to LIFO

D - This operation is not allowed.

In the worst case, the number of comparisons needed to search a singly linked list of length n for a given element is

a) log 2 n

b) n⁄2

c) log 2 n – 1

d) n

Given an array of element 5,7,9,1,3,10,8,4. Tick all the correct sequences of elements after inserting all the elements in a min-heap.

a) 1,3,4,7,8,9,10

b) 1,4,3,8,9,5,7,10

c) 1,3,4,5,8,7,9,10

d) None of the mentioned

A pivot element to partition unsorted list is used in

A - Merge Sort

B - Quick Sort

C - Insertion Sort

D - Selection Sort