

1. Which operation transfers the data item from the local buffer of the transaction that executed the write back to the database (a) Read (b) Write (c) Consistency (d) Durability
2. Reading uncommitted data comes under (a) rrconflict (b) wrconflict (c) wwconflict (d) rwconflict
3. The locking protocol allows only interleaving of transaction (a) Memory (b) Safe (c) Unsafe (d) Register
4. Writing a page to disk is an action in atomic writes (a) Read (b) Redundancy (c) Atomic (d) Duplicate
5. After crash, which of the following is given control and must bring the database to a consistent state (a) Transaction control (b) Query and evaluation plans (c) Recovery manager (d) Concurrency control
6. Strict schedule is (a) Unscheduled (b) Non Recoverable (c) Recoverable and Non Recoverable (d) Recoverable
7. Concurrency can be increased by introducing new kind of lock is called (a) Exclusive lock (b) Update lock (c) Shared lock (d) Write lock
8. According to Thomas write rule (a) $TS(T) = WTS(0)$ (b) $TS(T) < WTS(0)$ (c) $TS(T) > WTS(0)$ (d) $TS(T) \neq WTS(0)$
9. ARIES stands for (a) Algorithm for remove isolation exploiting Symantic (b) Algorithm for renewal isolation exploiting Symantic (c) Algorithm for redundant isolation exploiting Symantic (d) Algorithm for recovery isolation exploiting Symantic
10. The fields common to all log records are (a) prevLSN, pageID, length (b) transID, type, pageID (c) prevLSN, transID, type (d) pageID, length, offset
11. is the first step in analysis phase of ARIES (a) Unfinished transactions (b) Examining recent checkpoint record (c) Initializing dirty page table (d) finished transactions
12. Each record in a file is identified by (a) Pageid (b) Bucket (c) Recordid (d) Hash Function
13. The syntax of dropping an index in SQL is (a) DROP <index-name>; (b) DROP UNIQUE INDEX <index-name>; (c) DROP INDEX <index-name> (d) DROP INDEX <index-name>;
14. In B+ trees, all leaf pages are maintained in (a) Doubly Linked list (b) Linked list (c) Stack (d) Arrays

15. Which file organization allows to store records that would satisfy the join condition by using one block read (a) Hash file organization (b) Heap file organization (c) Sequential file organization (d) Multitable clustering file organization

16. The presence of suitable indexes can significantly improve (a) tuning the conceptual scheme (b) The index selection (c) configuration enumeration (d) evaluation plan for a query

17. In data striping the data is segmented into equal size partitions distributed over multiple disks. The size of the partition is called (a) Striping unit (b) Block (c) Cylinder (d) Sector

18. Which layer in DBMS architecture hides the details of the underlying hardware (and possibly the OS) and allows higher level software to think of the data as a collection of pages (a) Concurrency control (b) Buffer manager (c) Recovery manager (d) Disk space manager

19. The height of the B+ tree with only leaf level and a single index level is (a) 3 (b) 1 (c) 2 (d) 4

20. Which scheme uses a clever policy for creating new buckets and supports Inserts & Deletes efficiently without the use of a directory (a) Static Hashing (b) Extendable Hashing (c) Linear Hashing (d) Indexing

ANS: BBBCCDBBDCBCDADDADBC