

1. A unit of program execution that accesses and possibly updates various data items is called (a) Check Pointing (b) Crash Recovery (c) Concurrency (d) Transaction
2. A Transaction T2 try to read uncommitted data which was modified by T1 transaction may yield (a) wr conflict (b) rr conflict (c) ww conflict (d) ww conflict
3. is the simple way to identify the deadlock (a) Searching (b) Time in Mechanism (c) Locking (d) Timeout Mechanism
4. The syntax of Rollback command is (a) ROLLBACK[SAVEPOINT <savepointname>] (b) ROLLBACK[TOSAVEPOINT <savepointname>] (c) ROLLBACK[TOSAVEPOINT] (d) ROLLBACK[TO <savepointname>]
5. WAL Stands for (a) Write Ahead Log (b) Write Ahead Loss (c) Write Among Loss (d) With Ahead Log
6. As schedule is if it is view equivalent to some serial schedule (a) Conflict equivalent (b) View equivalent (c) Conflict serializable (d) View serializable
7. The wait-dies scheme is (a) Non-Preemptive (b) Exclusive (c) Shared (d) Preemptive
8. According to Thomas write rule (a) $TS(T) < WTS(0)$ (b) $TS(T) \neq WTS(0)$ (c) $TS(T) = WTS(0)$ (d) $TS(T) > WTS(0)$
9. The recovery manager of DBMS responsible for following two important properties (a) Consistency & Granularity (b) Atomicity & Durability (c) Granularity & consistency (d) Consistency & Durability
10. Which log record contains just the after image field (a) all log records (b) redo only update log record (c) update log record (d) undo only update log record
11. The number of steps that a checkpointing in ARIES has (a) four (b) one (c) two (d) three
12. Which layer of DBMS architecture implements file of records (a) Buffer Manager (b) Disk Space Management (c) File & access method layer (d) Query evaluation
13. An index that uses a data entry as an actual data record (a) Clustered (b) Dense (c) Unclustered (d) Sparse
14. If every non leaf node of a tree based data structure has n children, then the number of leaf pages of a tree of height h are. (a) nh (b) nh (c) $1/nh$ (d) $n(h-2)$
15. The cost (in terms of execution time) of scan operation in heap files Where B = The number of data pages when records are packed on top pages with no wasted space R = The number of records per page D = The average time to read or write a disk page C = The average time to process a record (a) $C+D$ (b) $2D+C$ (c) $B(D+RC)$ (d) $0.5B(D+RC)$
16. If the search key is composite, the query in which each field in the search key is bound to a constant is called (a) equality query (b) inequality query (c) logical query (d) range query
17. Example for volatile storage is (a) magnetic disk (b) tape storage (c) optical storage (d) main memory
18. The buffer manager manages the available main memory by partitioning it into a collection of pages which we collectively refer to as (a) Buffer pool (b) Disk blocks (c) Sectors (d) Frames
19. Which tree is a static index structure (a) AVL Tree (b) B+ Tree (c) ISAM tree (d) B Tree
20. Which scheme uses a clever policy for creating new buckets and supports Inserts & Deletes efficiently without the use of a directory (a) Extendable Hashing (b) Linear Hashing (c) Indexing (d) Static Hashing

Ans- d a d b a d a a b b d e a a c a d a c h