Preparation Questions2

1)Briefly explain the importance of 3NF, BCNF and 4NF with a suitable example.

2)Explain the ACID properties of transactions.

3)Explain Time stamp-Based Concurrency Control protocol?

4)Consider a relation schema R (A, B, C, D, E) with a set of FDs

F = {A → B, BC →E, ED → A}

(i) List all keys of R

(ii) Is R in 3NF

(iii) Is R in BCNF

5) What is Database recovery system and explain the types of database recovery.

6) Explain concurrency control with lock based protocols

7)Describe what are the types of Functional Dependency. Why we use Normalization?

8) Explain transaction states with a neat diagram.

9)A relation R(A,B,C,D,E) with functional dependencies FD={AB->C, B->D, C->E, D->A}, Find the key from the given Functional dependencies.

10)Explain lossless & dependency preserving decomposition

11)Discuss on two-phase locking protocol and time stamp- based protocol

12)Write about: a) dead lock detection b) dead lock avoidance.