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## END TERM EXAMINATION - December-2022 SEMESTER - III

(B.Tech. CSE (All)/ For Batch 2020 and 2019)

Subject Code: 21CS2005/CS2005

**Duration: 3** 

hours Subject: Database Management Systems

Max.

Marks: 100 Instructions

All Questions are compulsory

- The Question paper consists of 2 sections Part A contains 10 questions of 2 marks each. Part B consists of 5 questions of 16 marks each.
- There is no overall choice. Only Part B question include internal choice.

PART - A (2 \* 10 = 20 Marks)

- 1. Explain Specialization.
- 2. Define DML?
- 3. What are the various anomalies that can occur in a database - Show , ouse management system?
- 4. Write the difference between DDL and DML?
- 5. What are ACID properties of Transaction?
- 6. What are Concurrent Transactions?
- 7. What do you mean by Data Mining?
- 8. What is difference between delete truncate and drop? (1+1)
- 9. What are stored and derived attributes? Explain with an example? (1+1)
- 10. What are the various aggregate functions in sql?

11. a) Compare the database system with conventional file system?

OR

- b) Explain various data models
- 12.a) What is Relational Algebra? Explain the Different Operations of Relational Algebra with Example. (8+8)

OR

- b) Draw an E-R diagram for the library management system.
- 13.a) What is highest normal form of the Relation R(A, B,C,D,E) with the set  $F = \{AB \rightarrow C, C \rightarrow D, B \rightarrow E\}$ . Consider that no multivalued attribute exist in relation R.

OR

- b) Consider a relation R (A, B, C, D, E) with set F= {A→CD, C→B, B→AE}. What are the prime attributes of this Relation? Explain augmentation rule of functional dependency.
- 14. a) Explain Transaction States in DBMS.

OR

- b) What are Recoverable Schedules and Irrecoverable Schedules? super Dial (8+8)
- 15.a) What is difference between data mining and data warehousing.

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b) Write short note on Locking Protocols.