**SET-A**

**Rajasthan Institute of Engineering & Technology, Jaipur**

**University Roll No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

4th -Year B. Tech. ..7th..Semester…Ist Mid Term Exam Sept– 2018

Branch:- CSE & IT Subject: - ADBMS

Time: 2hr [Maximum Marks:-20]

Instructions to Candidates: -

Attempt all four questions. All questions carry equal marks.Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.

1. What is Optimization? How can you optimize a SQL query? Explain with suitable example.

**OR**

1 What is Query Processing? Explain the Query Processing Steps with Diagram.

1. What information is stored in system catalog of a DBMS and how is it used in query optimization?

**OR**

1. What is the role of relational algebra equivalences in query optimization?
2. Write a short note on :
3. Decomposition of query into blocks
4. Estimation cost of a plan

**OR**

3. What are different structured data types available in Object Database System?

1. What is Materialization? How it is Different from pipelining?

**OR**

4. Difference between cost based optimization and heuristic optimization.

**SET-B**

**Rajasthan Institute of Engineering & Technology, Jaipur**

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4rd Year B. Tech. ..7th..Semester…Ist Mid Term Exam Sept– 2018

Branch:- CSE & IT Subject: - ADBMS

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Instructions to Candidates: -

Attempt all four questions. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.

1. Define Query Optimization and explain its significance for DBMS.

**OR**

1. Explain the term System Catalog? Define how catalog are stored?

2 How heuristic query optimization is performed? Explain with the help of a suitable example.

**OR**

1. Explain the cost based query optimization.
2. What is Query Processing? Explain the Query Processing Steps with Diagram.

**OR**

1. Define the structured data types with example.
2. Write a short note on :
3. Pipelining
4. Materialization

**OR**

4 What is the importance of relational algebra equivalences in query optimization?

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