

**RAIGANJ SURENDRANATH MAHAVIDYALAYA**

**INTERNAL EXAMINATION-2021**

**SUBJECT-COMPUTER SCIENCE**

**SEMESTER-04**

**FULL MARKS-18**

**TIME-45 MINUTES**

1) Answer any four questions.

4X2=8

(a) What is a Schema?

(b) What is the cardinality of a relation in an E-R diagram?

(c) How SQL acts as a DML?

(d) What is meant by the term query language?

(e) How do you add a column to a table using SQL statement(s)?

(f) What are Entities and Attributes?

(g) What is a Relation?

2) Answer any two questions.

2x5=10

(a) What is DBMS? Explain advantages and disadvantages of DBMS.

(b) Explain ER model with the help of a suitable example.

(c) Explain SQL join operators with examples.

(d) Consider the following relation:

R (a, b, c, d, e, f)

Functional Dependencies:

$a \rightarrow b, c$

$d \rightarrow e$

$ad \rightarrow f$

Decompose R into the 2NF