Note: i) All questions are compulsory.

ii) Figures to the right indicate full marks.

iii) Give query example wherever necessary.

Q.1 Attempt any Four. [20]

a) What are the disadvantages of file management system?

b) Explain Normalization with 3NF and BCNF.

c) What do you mean by a Weak entity set?

d) Explain the terms-

i) Entity Set

ii) Relationship Set

iii) Attributes

e) Explain cardinality constraint.

f) Write a short note on – Generalization.

g) What do you mean by DBMS? What are its applications?

h) What do you mean by total participation and partial participation?

[20]

Q.2 Attempt any Four.

a) Explain select and projection operators.

b) Explain DDL statements used in SQL? Give example of each.

c) What do you mean by constraints? What are different types of constraints used in SQL?

d) Explain domain relational calculus.

e) What do you mean by correlated subquery? Explain with example.

f) What do you mean by join? Explain Right join and Full Outer Join with suitable example.

g) Explain any five string functions used in SQL.

h) Consider following tables-

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