

**PARUL UNIVERSITY – PARUL INSTITUTE OF
TECHNOLOGY
COMPUTER SCIENCE AND ENGINEERING
DEPARTMENT Subject: Database Management System
(303105203)**

Question Bank Unit 3 Data Model

1. Define the terms a)Data Model b)ER Diagram
2. Define the terms a) Entity b)Attributes c)Relationship set d)Entity Set 3.
What are the different types of attributes? Explain in each details? 4.
Explain descriptive attributes with neat sketch diagram?
5. Define the terms degree of relationship? Explain the different types of it?
6. Explain cardinality constrains? Explain the different types of it? 7.
Explain weak entity set with neat sketch diagram?
8. Difference between sub class & super class?
9. Explain the terms Generalization & Specialization with neat sketch diagram?
10. Explain disjoint constrains in generalization & specialization with neat sketch diagram?
11. Explain participation constrains with neat sketch diagram?
12. Define the terms aggregation with neat sketch diagram?
13. Define the terms integrity constrains? What are the different types of it? 14. Difference between super key & candidate key?
15. Define Object Oriented Model with neat sketch diagram?

Question Bank Unit 4 Relational Data Model

1. Define Relational Data Model or Relational Model.
2. Explain Relational Model concept with a suitable example.
3. Explain the terms a) Relational integrity constrains b) Domain constrains c)
key constrains d) Referential integrity constrains
4. Define Degree and explain types of degree.
5. Define the terms key? What are the types of it?
6. Difference between super key & candidate key with example?
7. Explain not null constrains with example?

8. Explain Create, Alter, & Drop in not null constraints with example?
9. Define the term Relational Algebra? What are the different operation of it?
10. What is aggregate function? What are the types of it?
11. Explain Aggregate function using group by & having clause with example?
12. Explain Min function & Avg function with example?
13. Define Cardinality and explain types of cardinalities.
14. Define Relational Algebra.
15. Why Select Operation is used? Which symbol is used as a select operation notation? Explain with a suitable example.
16. Why Project Operation is used? Which symbol is used as a select operation notation? Explain with a suitable example.
17. Explain Cartesian Product Operation with a suitable example.
18. Enlist Set Operations and explain with suitable example.
19. Give classification of Join Operations.
20. Explain Inner Join with a suitable example.
21. Explain Left Join with a suitable example.
22. Explain Right Join with a suitable example.
23. Explain Full Join with a suitable example.