Sec-A

1- What is doublasse? A dastabase is an organized collection of data that can be easily accessed, managed, and opolated electronically.

2. What is a Schema?

A Schema is the logical structure of a database, defining how data is organized and how relationships among data are mountained.

- 3. List the types of database models.
 - · Hierarchical model
 - · Network model
 - · Relational model
 - · Object Orciented model
 - · Document model
 - · key value model

into the proposal of expent H 4. What 95 Pocimary key?

A Primary key is a unique identifier for each record in a table. It ensures that no two reas have the same value in that column.

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1. Emplain three-level architecture of DBMS.

- . Internal level: Deals with Physical Storage of data.
- · Conceptual level! Describes Structure of the whole database for a community of Usercs.

"Enternal level: User - specific view of the dotabaso.

This arronitecture provides dout a abstraction and independence between levels.

2. Emplain the ER model and its components.

ER (Gntity-Relationship) model represents data Using ontifies, attributes, and relationships.

- · Intities: Objects (e.g. Student)
- · Attrabuta: Properties (e.g. Name, D)
- · Relationships: Associations between entities (e.g. Firrolls)

It helps in designing a douterbase Schema.

Sec-c

1. What is database banquage? Emplais
in detoil.

MBMS Uses several database languages:

DDL (Data Definition language):
Defines Schema (e.g.: CREATE, ALTER)

· DML (Date manipulation Language): manages data (e.g.: INSERT, UPDATE)

- · DCL (Data Control Loungewage): Controls accress (e.g.: GRANT, REVOKE)
- · TCL (Treansaction Control Language):
 manages transactions (0.8: Commit,
 ROLBACE)
- aggruegation? Emplain how these are used in ER.
 - · Generalization: Combining Similare entities into a Superclass (e.g.: Student and Teacher into Percson)
 - * Specialization: Dividing an entity into Subclasses (e.g.: Employee into manager and Engineer)
 - · Aggrægation: Relationship between relationships (e.g.: a "Workson" relationship between forployee and project can be associated with a manager.).