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DEPARTMENT : Computer Science

PROGRAM : Software engineering

SEMESTER : 4<sup>th</sup>

SECTION : A

SUBJECT : Database System.

Q1: (i) which attribute in the following table is a Candidate Key? Assume that no more data will ever be added to this table.

Ans: The attribute ID in the given table is Candidate Key, because it will be unique and can't be Null.

Q2: (ii)

Data Redundancy:

Data redundancy refers to data duplications in database, the same data in table is duplicated and repeated in many locations.

Data Integrity:

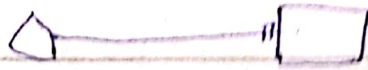
Data Integrity is accurate, complete and the most consistent data in database. Multivalued attribute consists of more than one attribute and it can multiple value. For examples. A student can take more than one subject in each semester, or a student can have more than one contact number.

(3) - Ans - (Not - confirm)

(4) The maintenance reduced in database by minimum redundancy and flexibility.

(5)

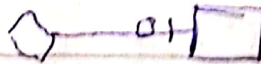
Ans - Mandatory one



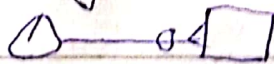
Mandatory many



Optional one



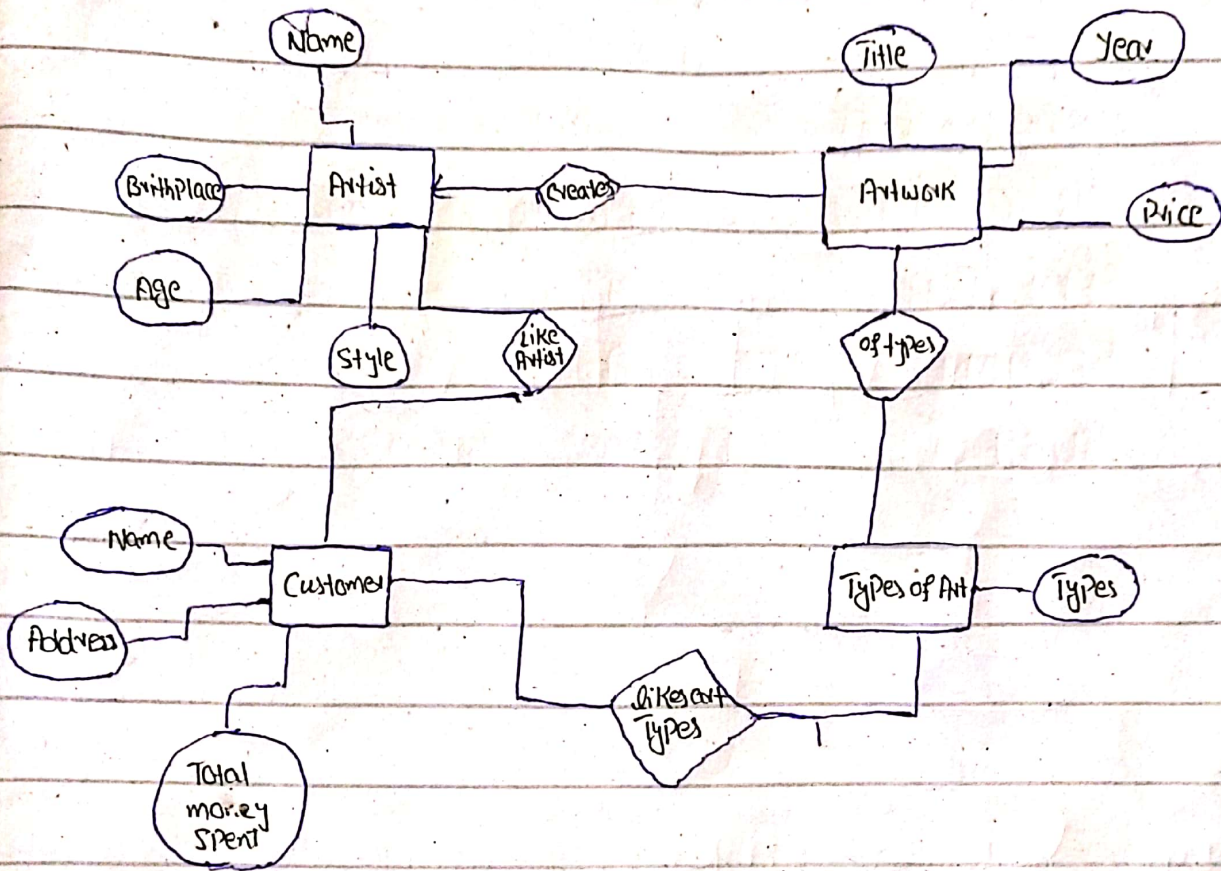
Optional many



(6)

Ans: It is the responsibility of end user to protect data from accidental or intentional loss of data, for that there is need of bcc in the database.

Q2 -



Q3: Convert the following Conceptual Model to Relational Model -

- Ans:
- Student (Student id, name, Student address, Sent no)
  - Course (Course - number, Course name)
  - Take scou (take - Couid, Student ID, Course hunter)
  - Seat (Seat - no, Seat - Position)
  - Class (Section - number, Course - name - num - registered, Class - date, time, Course - number)

"The End"