Task1:

Suppose we want to design a database related to your university to help the different departments in the faculty to follow the transactions and processes of textbooks distributed to the students. Complete an information level design for a database that must satisfy the following constraints and requirements:

• Each student can be enrolled in many courses.

• A given course is proposed by one department, but one department can propose many courses.

• Any course is given by one lecturer.

• Each lecturer belongs to one department.

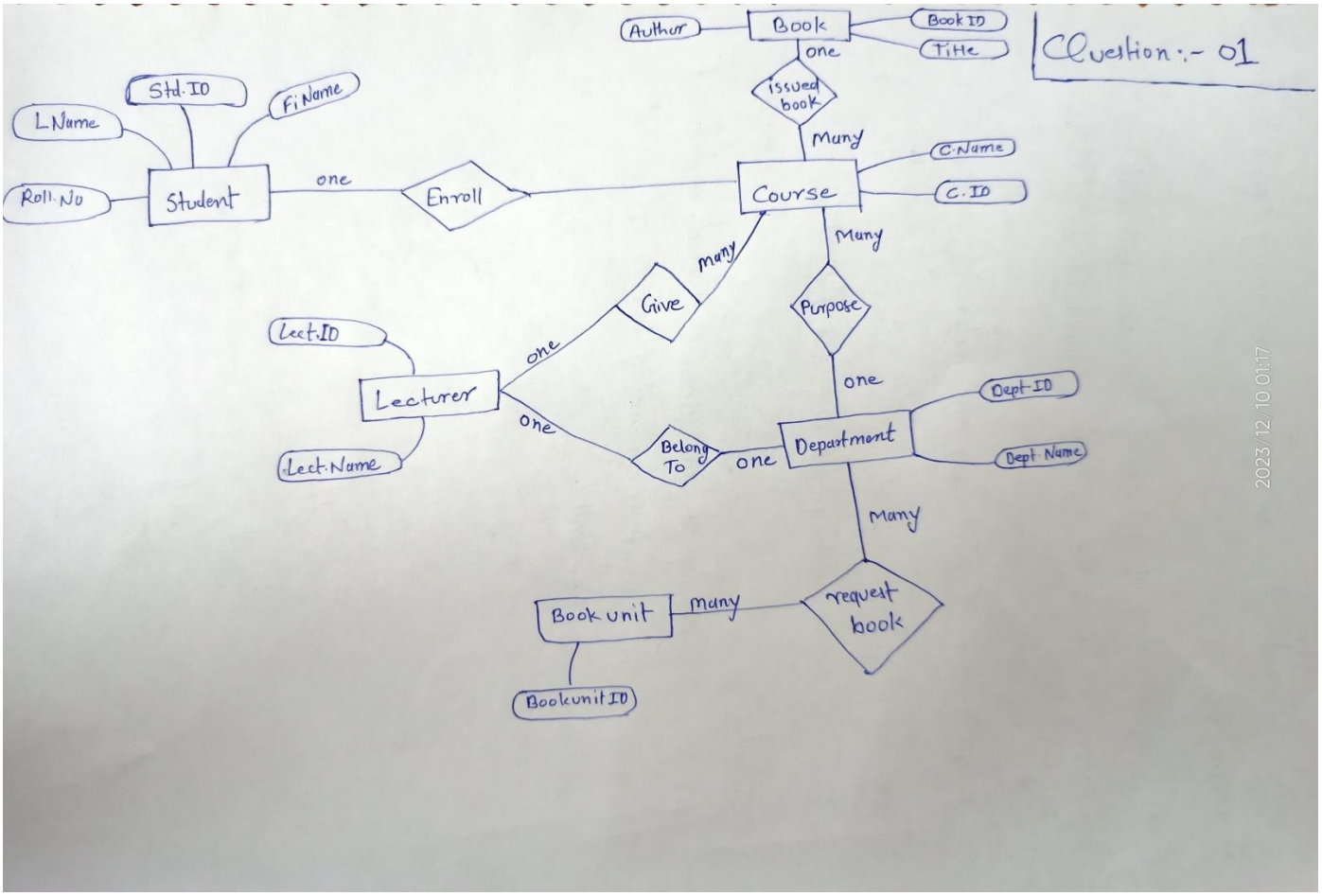
• At the beginning of the semester, each department sends to the "book unit" a document containing the list of requested books.

• Any student receives one book for each course in which he is enrolled. Based on the previous requirements, do the following:

A. Define the necessary entities and the attributes for each entity type.

B. Explain the meaning of each relationship defined between the entities.

C. Draw the entity relationship Model



→ Enroll

Each Student can be enrolled in many Course.

→ propose :-

A department proposes many Courses, but each Course is proposed by one department.

→ Give :-

Any Course is given by one lecturer

→ BelongTo -

Each lecturer belongs to one department.

→ Send -

At the beginning of the Semester each department Sends a document containing list of requested books to "book unit".

TASK 2

Q) Draw a detailed E-R diagram for an airline reservation system. Clearly mention the cardinalities. One the diagram is ready , convert it to the tables.