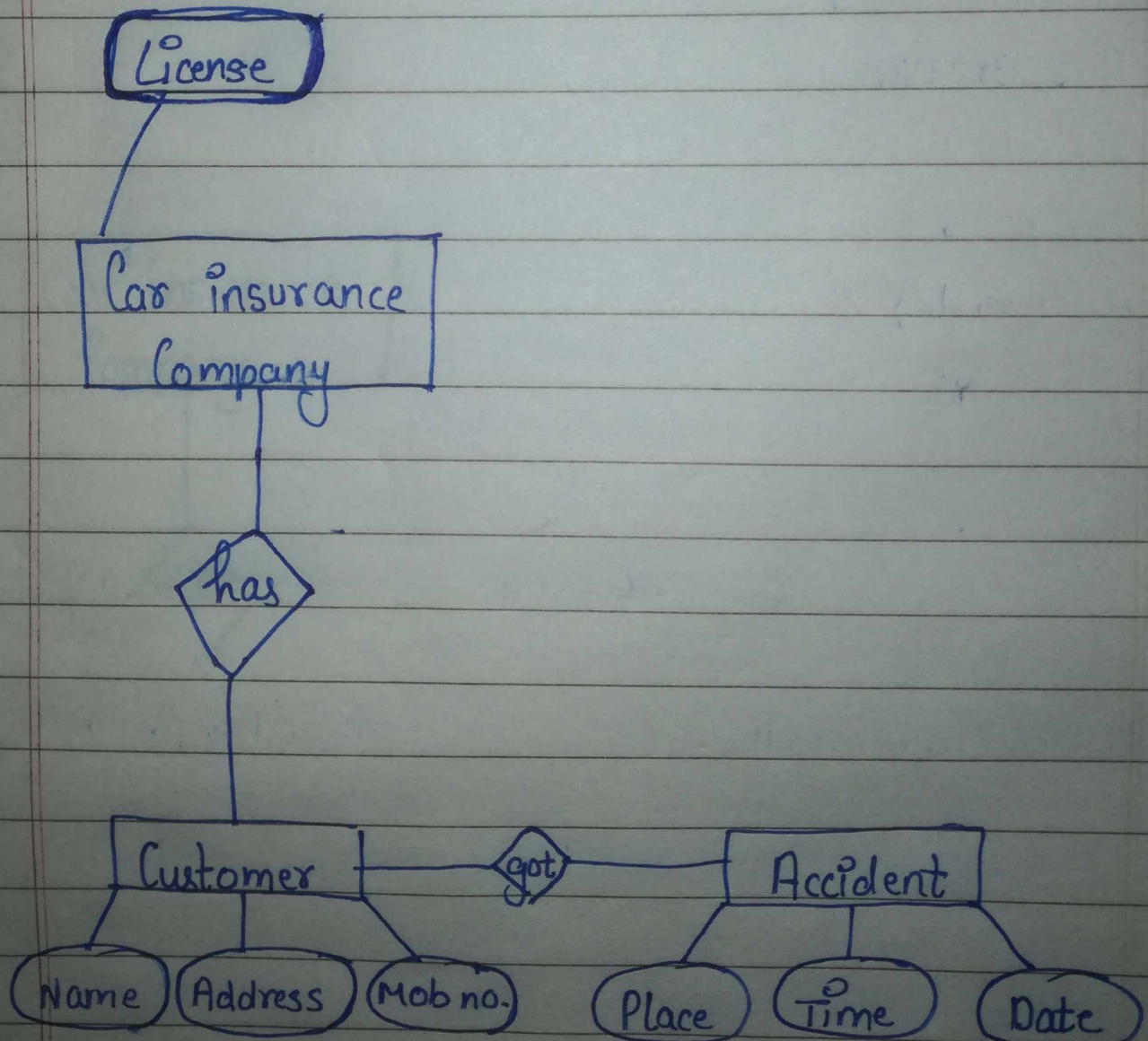


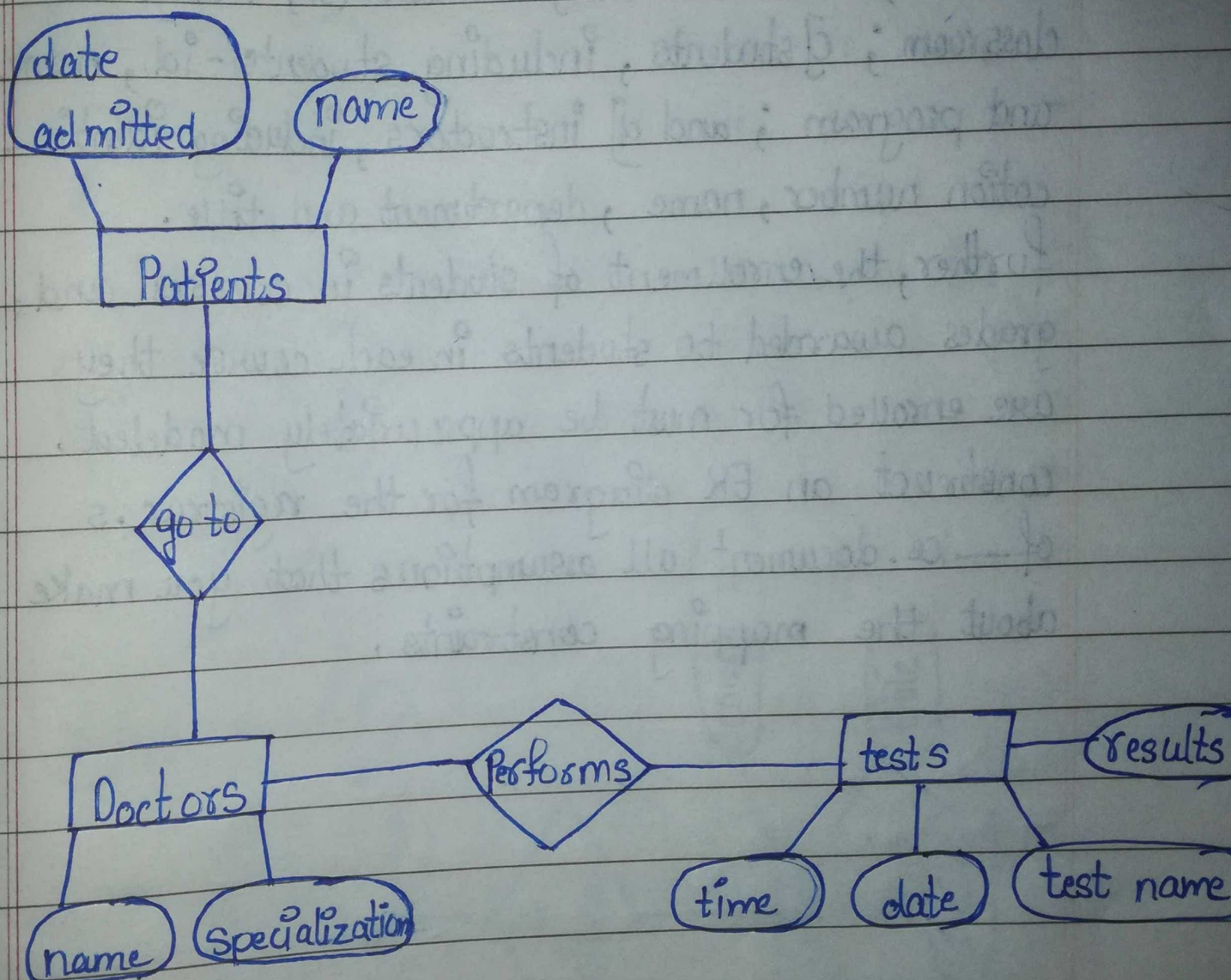
Practical No. 4Q. I

Construct an E-R diagram for a car-insurance company whose customers own one or more cars each. Each car has associated with it zero to any number of recorded accidents.

Ans.

Q.2] Construct an E-R diagram for a hospital with a set of patients and a set of medical doctors. Associate with each patient a log of the various tests and examinations conducted.

Ans →



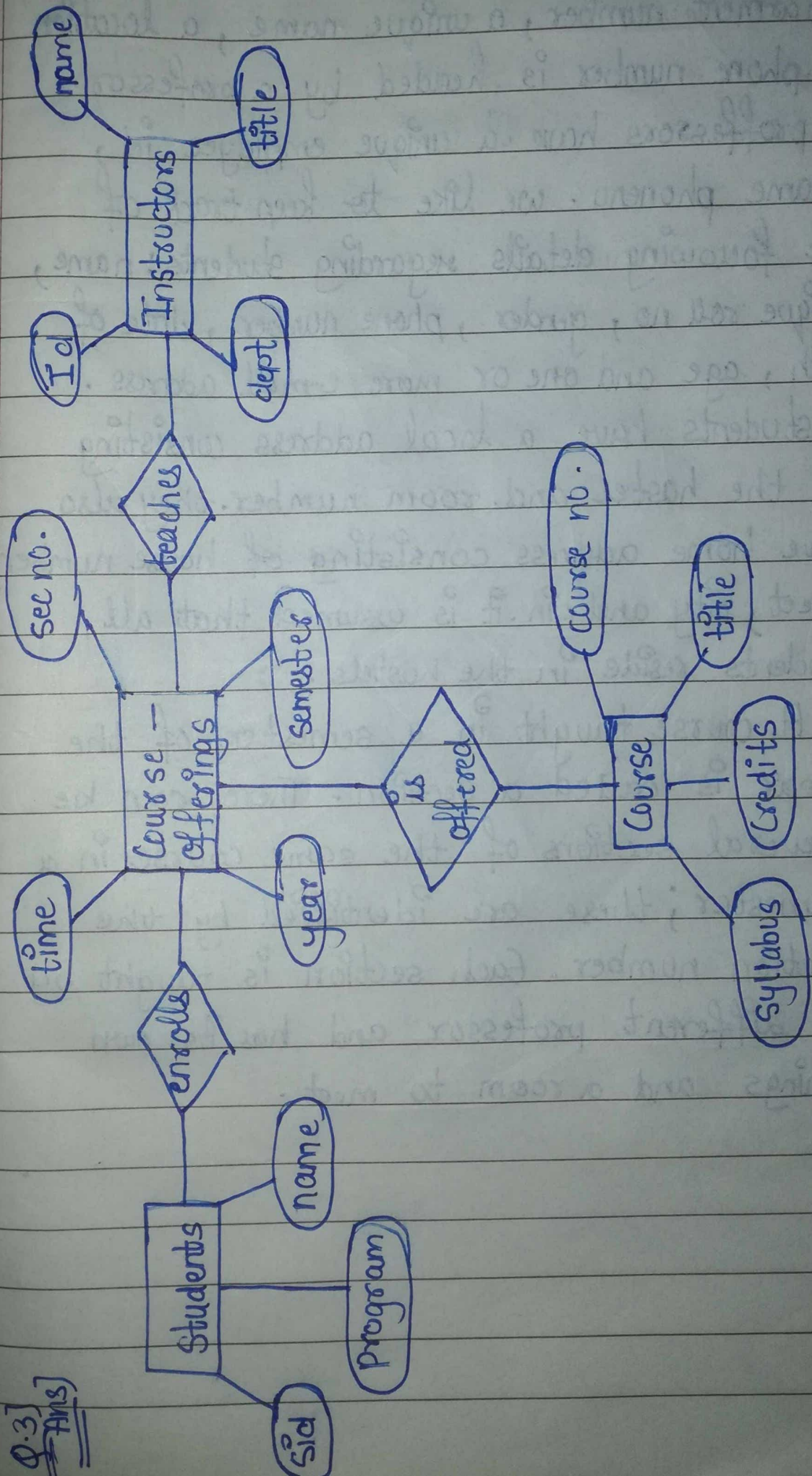
Q.3]

A university registrar's office maintains data about the following entities: a) courses, including number, title, credits, syllabus, and prerequisites; b) course offerings, including course numbers, year, semester, section number, instructor(s), timings and classroom; c) students, including students-id, name and program; and d) instructors, including identification number, name, department and title.

Further, the enrollment of students in courses and grades awarded to students in each course they are enrolled for must be appropriately modeled.

Construct an ER diagram for the registrar's office. Document all assumptions that you make about the mapping constraints.

Q.3] Ans]

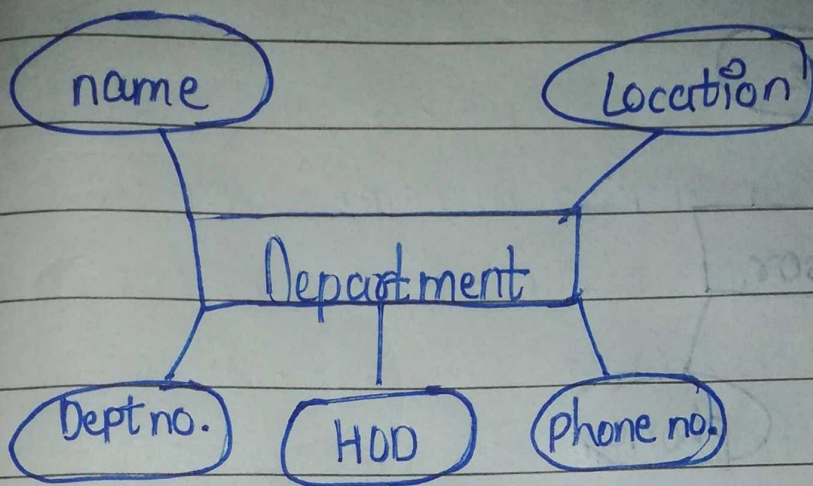


Q.4]

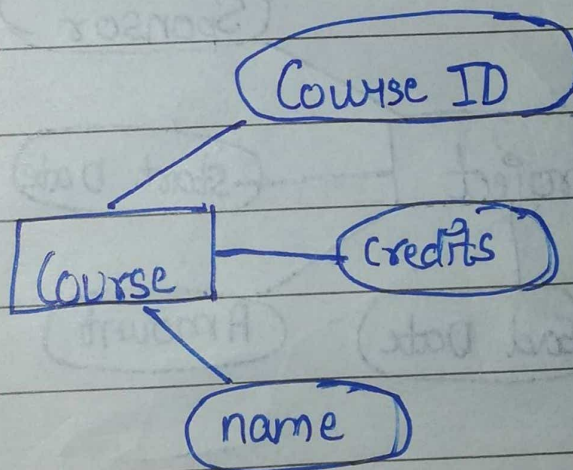
Draw the ER diagram for the given scenario

- In an educational Institute, there are several departments and students belong to one of them. Each department has a unique department number, a unique name, a location a phone number is headed by a professor.
- professors have a unique employee id, name phoneno. we like to keep track of the following details regarding students: name, unique roll no, gender, phone number, date of birth, age and one or more e-mail address.
- students have a local address consisting of the hostel and room number. they also have home address consisting of house number, street, city and pin. it is assumed that all students reside in the hostels.
- A course taught in a semester of the year is called a section. There can be several sections of the same course in a semester; these are identified by the section number. Each section is taught by a different professor and has its own timings and a room to meet.

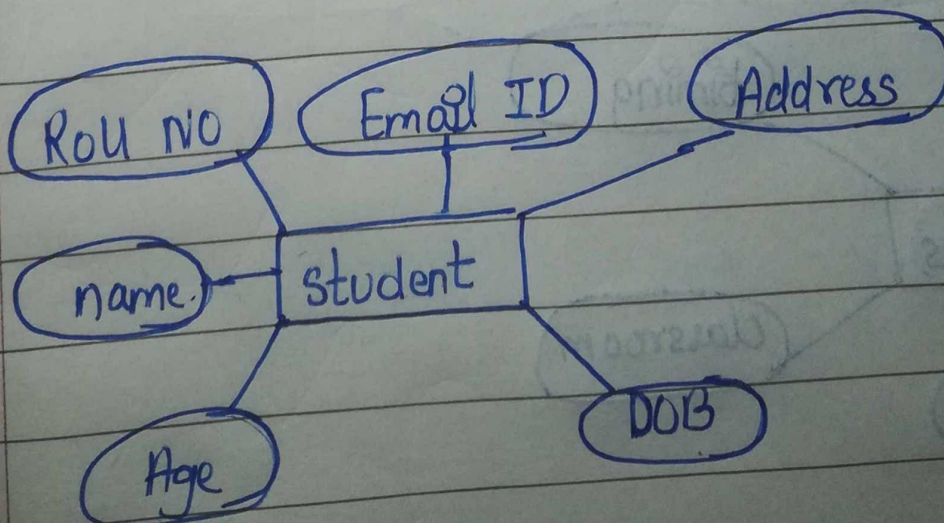
Entity - Department



Entity - course

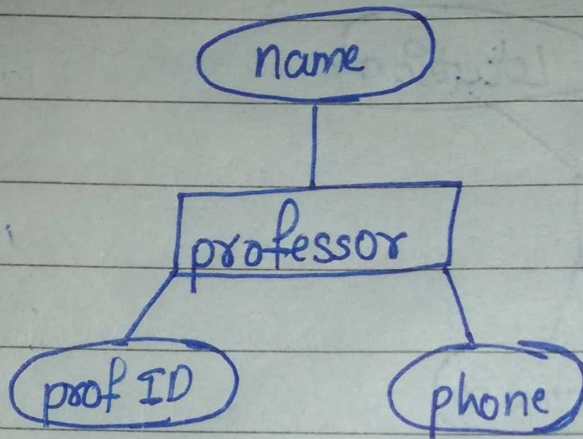


Entity - student

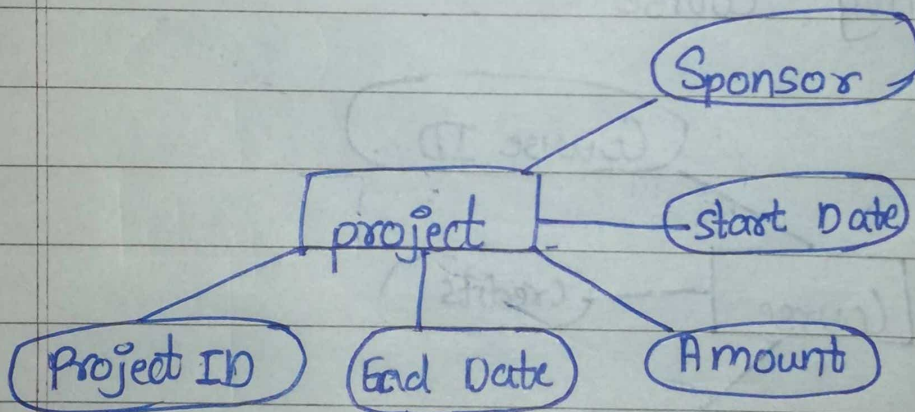


8-4.

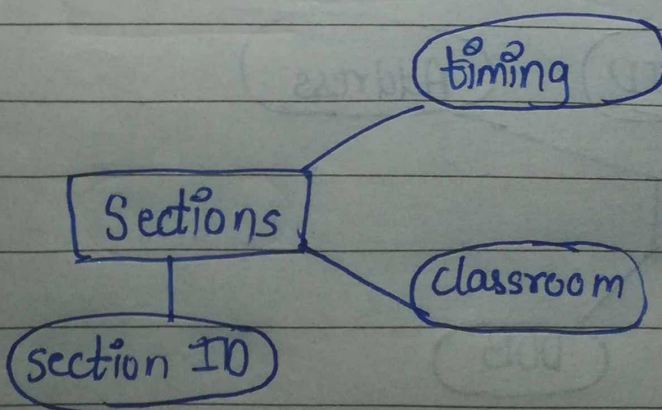
Entity - professor .



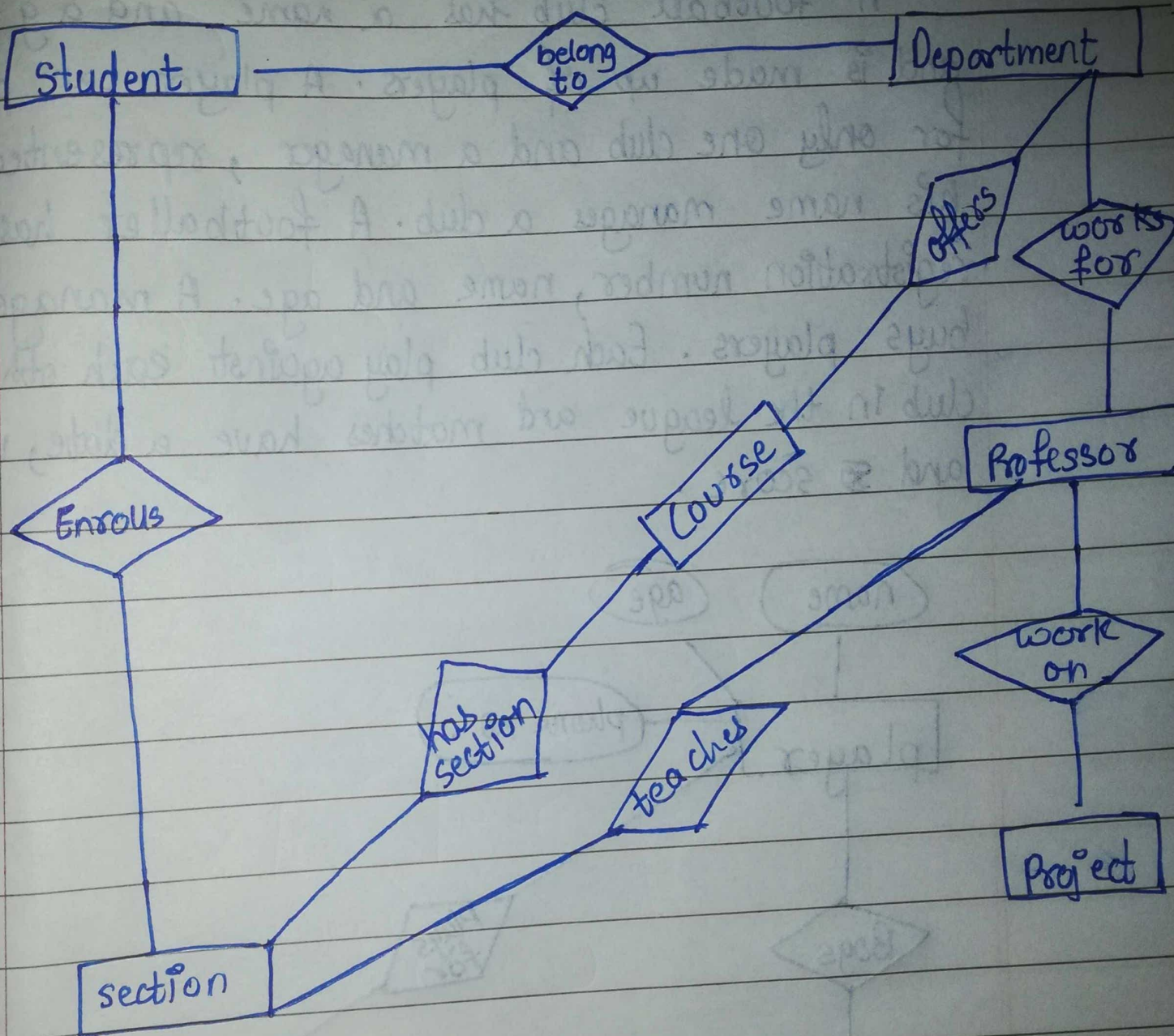
Entity - project .



Entity - Sections .



Showing Relationship



Q.5]

Draw the ER diagram for the given scenario.

" A football club has a name and a ground and is made up of players. A player can play for only one club and a manager, represented by his name manages a club. A footballer has a registration number, name and age. A manager also buys players. Each club play against each other club in the league and matches have a date, venue and score.

