You are required to create a conceptual data model of the data requirements for a company that specializes

in IT training. The company has 30 instructors and can handle up to 100 trainees per training session. The

company offers five advanced technology courses, each of which is taught by a teaching team of two or more

instructors. Each instructor is assigned to a maximum of two teaching teams or may be assigned to do research. Each trainee undertakes one advanced technology course per training session.

- (a) Identify the main entity types for the company.
- (b) Identify the main relationship types and specify the multiplicity for each relationship. State any assumptions you make about the data.
- (c) Using your answers for (a) and (b), draw a single ER diagram to represent the data requirements for the company.

a. Instructor, Teaching Team, Course, Training session, Trainee, research

b.

