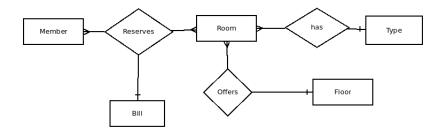
Time allowed: 90 mins Marks: 40

Note: Attempt all questions. Be brief and to the point.

Q No 1: Consider the following ERD diagram and answer the questions below



- (a) Implement the given above ERD into the ruby on rails.
- (b) Give the appropriate associations for each model.

Q No 2: Solve the following (Attempt any two)

- (a) Write the steps to add the project into the heroku.
- (b) Write steps to use the brrypt gem to validate the password. Use the rails console to validate the password.
- (c) Write a loop to check all the error messages in the rails console.

Q No 3: Attempt any two of the following

- (a) Create and run a migration to add a column address into user table and remove a column dob from the student table.
- (b) Write steps to show the logged in the header of the page.
- (c) Write steps to stop user not to access the sign up page when user is already logged in.

Q No 4: Attempt any two of the following

- 1. Write steps to stop the user not to **delete** or **edit** the record.
- 2. How do we know the logged in user is admin or normal user. Write steps.
- 3. How do you share your project with your friend over the bitbucket.