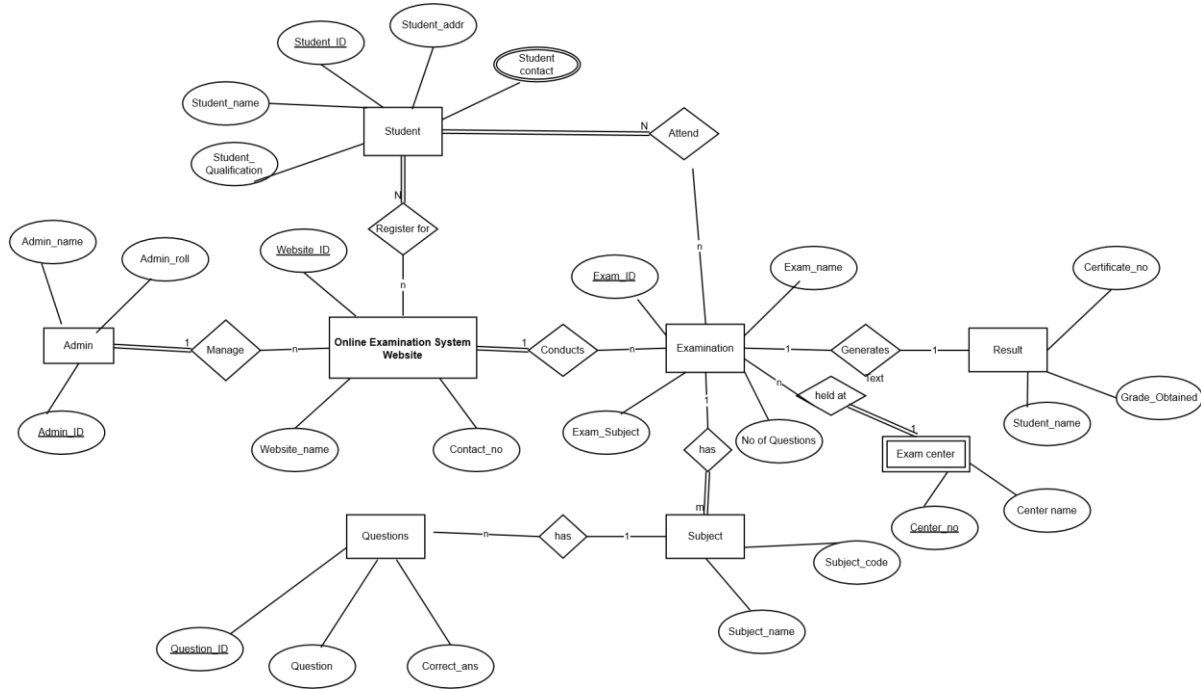
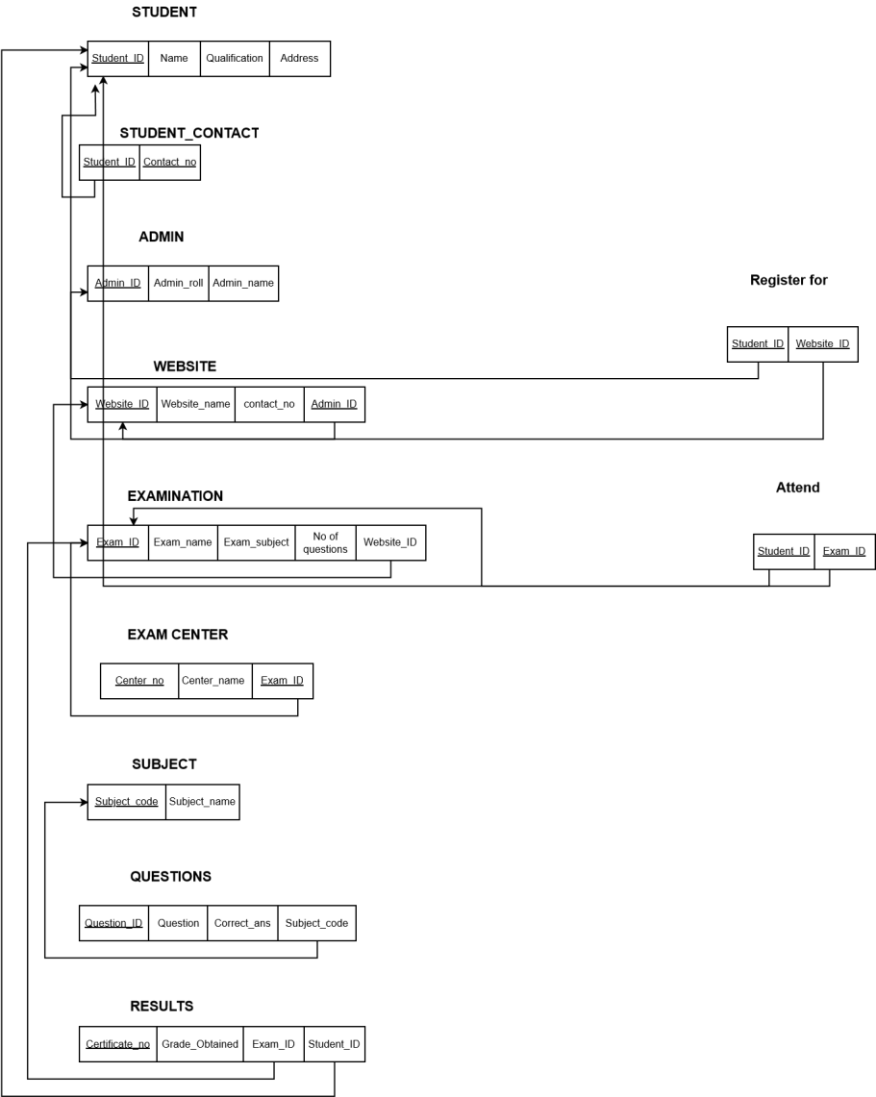


## ER DIAGRAM



## ONLINE EXAMINATION SYSTEM

RELATIONAL SCHEMA



# USER REQUIREMENT SPECIFICATION

## 1. Purpose of the Project:

The purpose of the Online Examination System is to provide an efficient, secure, and user-friendly platform for conducting examinations through the web. Traditional examinations involve manual processes such as paper setting, distribution, supervision, evaluation, and result generation, which are time-consuming and prone to human errors. This project aims to digitize and automate these tasks, enabling students to register, attend exams, and receive results seamlessly. The system ensures transparency in evaluation, reduces administrative overhead, and allows administrators to manage exams, subjects, and questions effectively. It also benefits students by providing instant access to results, grades, and certificates, thereby making the examination process more reliable and convenient.

## 2. Scope of the Project:

The scope of the Online Examination System includes the complete management of examinations starting from student registration to result generation. The system will support multiple users including students, administrators, and exam centers. Students will be able to register, attend exams online, and view their results. Administrators will have the ability to create and manage exams, subjects, questions, and monitor exam activities. The system will also maintain exam center details where examinations are held, and it will generate certificates and grades for students. This system can be extended to support multiple educational institutions, different subjects, and various exam types. It will ensure secure login for all users, accurate data storage using a relational database, and efficient result computation.

## 3. Detailed Description:

The Online Examination System is a web-based application designed to conduct and manage examinations. The major entities involved in the system are:

- **Student:** Registers in the system with details such as Student\_ID, Name, Qualification, and Address. Each student may have multiple contact numbers (stored in Student\_Contact). A student can register for and attend multiple exams.
- **Admin:** Manages the overall examination process. Admins are identified by Admin\_ID and have details such as Admin\_name and Admin\_roll. They are responsible for creating exams, managing subjects, adding questions, and assigning exams to websites and exam centers.
- **Website:** The examination is conducted via a website, identified by Website\_ID. Each website has a name, contact details, and is linked to an administrator.
- **Examination:** Defined by Exam\_ID, it includes Exam\_name, Exam\_subject, number of questions, and Website\_ID. An exam may be conducted at different exam centers.
- **Exam Center:** A physical or virtual location where the exam is held. It is identified by Center\_no and Center\_name, and linked to a specific exam.

- Subject: Contains Subject\_code and Subject\_name. Each subject is linked with multiple questions and may be part of multiple examinations.
- Questions: Each question has a Question\_ID, text of the Question, and the Correct\_answer. Questions are linked to subjects and assigned to examinations.
- Results: After a student attends an exam, results are generated. A result entry includes Certificate\_no, Grade\_Obtained, Exam\_ID, and Student\_ID.

**The system ensures:**

- Students can register and attend exams online.
- Admins can create exams, manage subjects, and assign questions.
- Exam centers are maintained for managing locations.
- Automatic evaluation of student answers and generation of results.
- Issuance of certificates and grades to students.
- This project provides an integrated solution for managing online examinations in a structured, secure, and efficient manner.