Quiz 2 – CSIS 2300– Database 1

A- ERD (25 points)

1. Consider the following business policies and rules: (15 points)

A cooking club organizes several dinners for its members. The purpose of the club is to allow several members to get together and prepare a dinner for the other members. The club president maintains a database that plans each meal and tracks which members attends each dinner, and also keeps track of which members creates each dinner.

Each dinner serves many members and any member is allowed to attend. Each dinner has an invitation. This invitation is mailed to each member. The invitation includes the date of the dinner and location.

Each dinner is based on a single entrée and a single dessert. This entrée and dessert can be used again for other dinners. This means that a member can again be selected to prepare the dinner and he may choose the same meal again.

Make an ERD diagram that will capture the requirements of the above selection. To summarize the following are the requirements:

- The ERD should be able to keep track of who prepared the dinner
- The ERD should be able to keep track on members who attended the dinner
- Each dinner should have an invitation which contains the date of the dinner and the location
- Each dinner contains a meal of a single entrée (main dish) and one dessert
- More than one member can attend the dinner
- Each member should receive an invitation for the dinner

Note: To facilitate easy database design, you are free to make some assumptions when it comes to attributes. This assumptions might include adding attributes which will serve as a primary key for the entity that you will create (Example:

Member no, Invitation no… etc...) While you are given freedom to make some assumption and some discretion in the ERD design (Example: Making use of Associative entities, weak entities etc, number of relationships...) you must make sure that all the requirements will be satisfied and all your entities covers such requirement. Also do not forget to include the cardinality in the ERD diagram.

2. Consider the following form: (10 points)

Make an ERD diagram that will capture the attributes and entities of the above form.

Rubrics for Checking the ERD Diagram	
Required items	Deducted points
ERD diagram did not meet specified requirements	Minus 3 for every requirement not met
ERD diagram did not fully capture relevant entities and attributes	Minus 3 for missing entities Minus 1 for every missing attribute
ERD diagram did not follow the correct symbol notation (We are using the UML notation)	Minus 1 for every wrong symbol
ERD do not contain required cardinality	Minus 1 for every missing cardinality
ERD contains wrong, illogical, or inaccurate cardinality	Minus 1 for every cardinality
ERD did not contain relationship descriptors	Minus 1 for every missing descriptor
ERD should identify the primary keys of the table	Minus 1 for every entity without a primary key