

Course no : GTECH2401

University of Palestine

Student No: _____



Course title: Data Base
Management

Mid Exam

Student Name:

Exam Time: 1 Hour

1st Semester 2018/2019

Date: 22.10.2018

No of Questions: 5

Total Grade: 15

Try to Answer All Questions

Open Book: No

Using Computer: No

Using Calculator: No

First Question(2 mark)

Defined the:

Foreign key:

Database Management System:

Second Question(2)

Explain how a unary relationship can be described as one-to-one, one-to-many, and many-to-many if only one entity type is involved in the relationship. With draw

Third Question(3)

Explain the Different kinds of relationship with example: (3 mark)

- a. One-to-One Relationship
- b. One-to-Many Relationship
- c. Many-to-Many Relationship

Fourth Question(6)

Draw an Entity-Relationship Diagram (ERD) based on the following requirements of HR system. The diagram should include the entities, attributes, primary keys, and relationships.

Hospital database requirements

- Each Doctor is described by Doc ID, Phone, address, and specialization. Each doctor is allowed to work in only one department.
- Each department is described by Dept no, Name, No of doctors and is supervised by a doctor.
- Each patient is described by Card number, name, address, and phone. Each patient is assigned to one or more department. It's required to keep track each admission date.
- Each lab is described by LabNo, name. It's required to keep track any lab service that may be done to the patient.

Fifth Q(2)

Draw an Entity-Relationship Diagram (ERD) based on the following requirements of HR system. The diagram should include the entities, attributes, primary keys, and relationships.

- **Employee is described by id , F.name , S,name and salary.**
- **Employee is allowed to work in one department but each department have many employees.**
- **Department is described by department no, name and number of employees.**