

National University of Computer and Emerging Sciences, Lahore Campus



Course Name:	Database Systems	Course Code:	CS2005
Degree Program:	BS(computer science)	Semester:	Spring 2024
Date:		Total Marks:	20
Section:	BCS-6A	Type:	Quiz(4)
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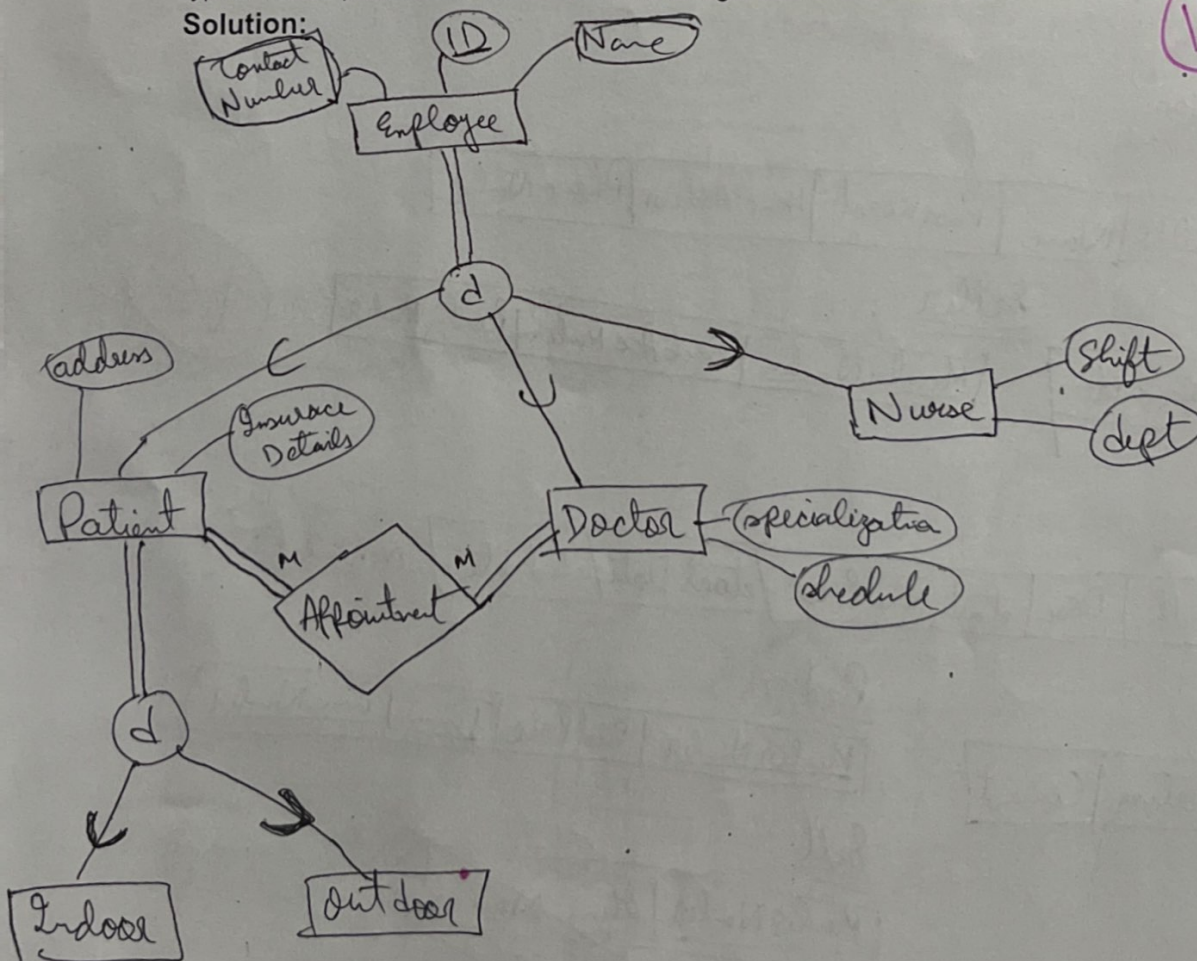
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QUESTION 1 (10 MARKS)

In the hospital management system, there are three main types of employees: Patients, Doctors, and Nurses. Patients are characterized by attributes such as ID, Name, Address, Contact Number, and Insurance Details. Doctors have attributes like ID, Name, Specialization, Contact Number, and Schedule. Nurses are identified by attributes such as ID, Name, Department, Contact Number, and Shift. Patients can have multiple appointments with doctors, and doctors can have multiple appointments with patients. Patients are categorized into two types: indoor patients or outdoor patients. Design EERD/ERD of the scenario.

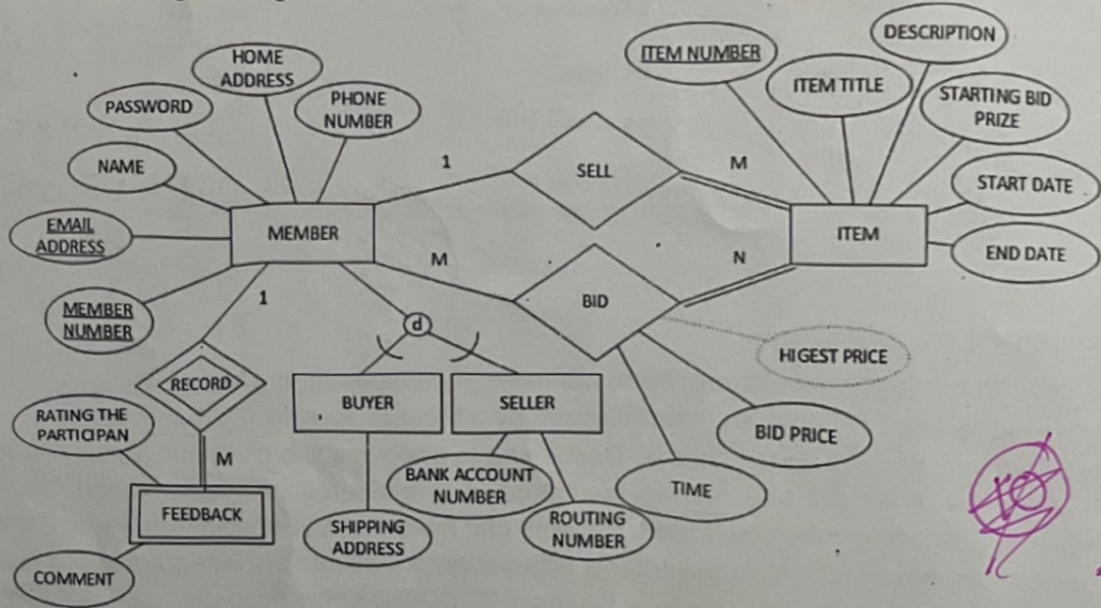
Solution:

10



QUESTION 2 (10 MARKS)

The following EER diagram models the business rules of an online auction website.



Solution:

Member:

Member Number	Home Address	Name	Password	Phone Number
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Buyer:

Member Number	Shipping address
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Seller:

Member Number	Bank Account Number	Routing Number
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10

Item:

Item Number	Item Title	Description	Starting Bid Price	Start Date	End Date
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member

email Add

Feed Back:

Member Number	Rating	Comment
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Bid

Member Number	Bid Price	Time	Item Number
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Sell

Member Number	Item Number
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Email Address as a foreign key can pass too.