

**Quiz 2**

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**Score (out of 10)****Taken by:**

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**Name**

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**Student ID****Graded by:**

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**Name**

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**Student ID**

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- You will have **15** minutes to finish this quiz.
  - Please don't start the quiz until the instructor directs you to do so. On the flip side, when the time is up, please stop writing when the instructor directs you to do so.
  - We will discuss the answers right after the quiz. You will grade another student's quiz. For this, please switch quizzes with another student.
  - When you get your quiz back, make sure that the "Graded by" fields are filled out.
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A mobile network operator, AB&C, has a database containing its customer information. You will find the ER diagram for that database on the last page. Feel free to detach that page (and that page only) for your convenience.

1. Which attributes of which entity sets are guaranteed to be unique? (2 points)
2. How many phones can a customer have? (1 point)
3. Is every customer required to own a device? (1 point)

4. How many customers can share a phone line? (1 point)
  
5. Is every customer required to have a phone line? (1 point)
  
6. Does every customer have to be referred by another customer? (1 point)
  
7. In the diagram below (not on the extra page), mark **one** example of the following concepts with the appropriate letter: (3 points)
  - a. Entity Set
  - b. Relationship Set
  - c. Composite Key
  - d. Composite Attribute
  - e. Recursive Relationship
  - f. Participation Constraint



