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Mathematics – L3 Applied Mathematics

Family Name:

First Name:

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Duration: 40 minutes

Test in Information System and Databases

Exercise 1: (06 points)

- For each of the following statements, indicate whether the statement is **True** or **False** by checking the corresponding box.
- In the case where the statement is **False**, provide the correct version.

Statement	True	False	Correction
Microsoft Word is an utility software			
A **usb key** is a storage peripheral			
The List of employees in a company, is a **Data** component of an information system			
Unit Testing helps ensure that the components of the system work together correctly.			
If I want to use a printer installed in a server, my computer must be in the same network as that server.			
iOS is a useful application on an Iphone.			

Exercise 2: (03 points)

Link each description with the correct development methodology:

The specifications of the system to build are know in advance	

SDLC

The user design and construction are done interactively with the user representative	

RAD

Feedback from users and usage statistics from a software can entirely change the idea of the entire system to build	

Lean

Agile

Exercise 3: (6 points)

Given the following table **Customer**, populated with one hundred entries, answer the following questions:

Customer (CustID, First_Name, Last_Name, email_phone, orders_dates)

- **Degree of table** =   , **Number of Tuples=**   , **Number of Records=**
- Being a relation in a relational data model, what are the corrections to apply on that table?