Family Name:		Year : 2025-2026
First Name:		Date : 04/11/2025
		Duration: 40 minutes

Abdelhamid Ibn Badis University of Mostaganem
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Mathematics – L3 Applied Mathematics

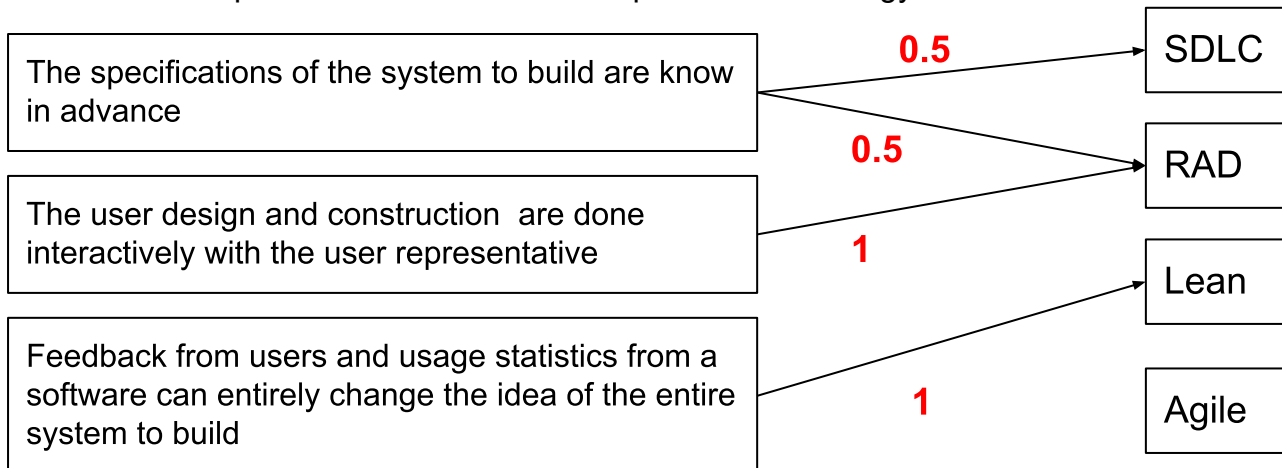# Test Information System and Databases - Solutions

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		X **0.5**	**0.5** **Microsoft Word is a productivity** software.
A **usb key** is a storage peripheral	X **1**		
The List of employees in a company, is a **Data** component of an information system	X **1**		
Unit Testing helps ensure that the components of the system work together correctly.		X **0.5**	**Unit Testing** is used to test various parts of the code to detect errors or bugs. **0.5**
If I want to use a printer installed in a server, my computer must be in the same network as that server.	X **1**		
iOS is a useful application on an Iphone.		X **0.5**	**iOS** is the operating system of the Iphone. **0.5**

Exercise 2: (03 points)

Link each description with the correct development methodology:

The specifications of the system to build are know in advance	SDLC **0.5**
The user design and construction are done interactively with the user representative	RAD **0.5** **1**
Feedback from users and usage statistics from a software can entirely change the idea of the entire system to build	Lean **1** Agile **1**

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** = **5 1** , **Number of Tuples= 100 0.75** , **Number of Records= 100 0.75**
- Being a relation in a relational data model, what are the corrections to apply on that table?

  Customer (CustID, First_Name, Last_Name, email 01,phone 01)
  Order (Order_id , order_date , CustID) 01.5