LGS GROUP OF COLLEGES
A PROJECT OF LAHORE GRAMMAR SCHOOL

Name: **M. Mujtaba Imtiaz** Class: **12th** Roll No._____

Subject: **Comp** Test No._____ Date:_____

	A B C D		A B C D		A B C D		A B C D	Marks Obtained
1	○ ○ ○ ●	6	○ ○ ○ ○	11	○ ○ ○ ○	16	○ ○ ○ ○	
2	○ ● ○ ○	7	○ ○ ○ ○	12	○ ○ ○ ○	17	○ ○ ○ ○	
3	● ○ ○ ○	8	○ ○ ○ ○	13	○ ○ ○ ○	18	○ ○ ○ ○	
4	○ ● ○ ○	9	○ ○ ○ ○	14	○ ○ ○ ○	19	○ ○ ○ ○	
5	● ○ ○ ○	10	○ ○ ○ ○	15	○ ○ ○ ○	20	○ ○ ○ ○	

(1)

Data integrity refers to the consistency and correctness of data. It ensures that the data in database is accurate, correct and reliable.

For Example,

Consider a table

ID	Name	Age
1	Ali	18
2	Ahmad	19

If, in case, the user enters number -5 in the Age section, it voilates data integrity because the data is not valid

(2)

Entity Integrity is a constraint that states that no value of primary key should contain nulls. It ensures that in a column of primary key there is no null or duplicate value.

ID	Name	Age
1	Ali	19
1	Raza	20

It also vilates data integrity because there is ‹1› writtern in both rows of column of primary key.

——— (3) ———

It is a constraints or foreign key values that states that if a foreign key exists in a relation, then either it is fully null or must match the value of primary key in other relation.

For Example:

Table-1				Table-2	
ID	Name	ClassID		ClassID	Marks
1	Ali	102		102	99
2	Ali	103		103	98

If you delete ID 1 from the inbdependent table then other table would have invalid refrence. Refrence Intrgrity prevents this from happening.

——— (4) ———

Synonym :-

1— It is used when two different names are used for one same

attributes (if it resides in the other row or entity as well).

2— For Example,

ITEM   **SUPPLIER**
 Stock   Supplier_ID (error)
 Supplier-Code ⟶   Name

It should be used Supplier_Code in the supplier section instead of Supplier-ID.

Homonym :—

1— It is used when same name for two different info's or attributes are used.

2— For Example,

 Supplier   **Company**
 Supplier_Name   Supplier_Name
           (error)

There should be Company_Name instead of Supplier_Name in company section.

—————— **(5)** ——————

It refers to the unnecessary repitition or duplication of data. In databases, it means to have more copies of data than actually needed. It can lead to inconsistency and ineffectiveness as well.

For Example,

Storing a customer's address in both Customer table and Order table.