Mohamed Khider Biskra University　　**Module:Math and Stat**
Faculty of Exact Sciences and SNV　　**University year:2023/2024**
Biology department　　　　　　　　　**Level: Licence 1**

Series N03(Part I): Qualitative variable

Exercise01: Specify in each example: The type, and the modalities of the variable

1. College major (spécialité universitaire): Biology, English, History, informatics engineering.

2. Number of parasites: 4,3,5,4,1,0.

3. Mode of transportation: walk, take e bus, drive a car.

4. Blood type: A+,AB, B+, B-, O+,O+,O+,A+;B+,O+.

5. Length of plants (cm):20,25,30,28,27,27.5.

6. Cholesterol level (mg\l): 2.10,2.15,2.00,2.03,2.40,1.38,1.15,210.

7. Sex: male, female, female, male, male, female, male.

8. Hobbies: Playing sports, singing, reading, cooking.

9. Dosage of calcium in mineral water (mg\l): 77,75,76,74,77,75.5,74,76.

10. Color of hair: brown, yellow, black, red, yellow, black, black.

11. Car speed (vitesse)(km\h): 60,80,60,120,100,120.

Exercise 02: Given the following series of data on blood groupe analysis for 20 persons:

O+	A+	B-	B+	B+	O+	B+	O+	O-	A+
A+	O+	O-	O+	O+	O+	A+	O+	A+	B-

Questions:

1. Determine the variable studied and its nature.

2. Determine the sample size.

3. Fill the frequency table

4. Construct the bar chart (diagramme en barre d'effectif)graph to represent the data.