Question One (10-Points)
Write **True** if the statement is true or **False** if not:

a. Descriptive statistics describes data using graphs and numerical measurements: **True**

b. Any process generates data as its outcome is called an experimental design: **False**

c. Data comes from a written surveys is a secondary data: **False**

d. The percentage computed based on a sample of size 1000 is a statistic: **True**

Question Two : ( 5-Points)
Define using your words the following:

a. Parameter: Any numerical measurement computed based on the entire population

b. Qualitative data: Data whose measurement scale is categorical

Question Three (5-Points)
Suppose that you want to ask the students about the quality of foods at the university Cafeteria, if the number of all students is 8000, and you have a frame of all of them, and it is decided to take a systematic random sample of size 100 students, explain the method of selecting this sample from the students.

1. Determine \( n \), \( n = 100 \), when \( N = 8000 \)

2. Find \( K \), \( K = \frac{N}{n} = \frac{8000}{100} = 80 \)

3. Select any number between 1 & 80 randomly

4. Suppose the random number is 15, then the sample is: 15, 95, 175, 255, ..., etc.