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 parameter: False

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

a. Parameter: Any numerical measurement based on the whole population.

b. Population: The set of all items of interest or under study.

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 4000, and you have a frame of all of them, and it is decided to take a sample of size 100 students, which sampling method should be used and explain the method of selecting this sample from the students.

\[
N = 4000, \quad n = 100
\]

\[-\text{ Systematic Random Sample.}\]

\[-K = \frac{N}{n} = \frac{4000}{100} = 40\]

\[-\text{ Choose any number between } 1 \leq k\]

Say 25, then the sample is:

\[
25, 25+400, 25+2(400), 25+3(400), \ldots \text{ etc.}
\]

\[
25, 65, 105, 145, \ldots \text{ etc.}
\]