* SOLUTIONS*

King Fahd University of Petroleum & Minerals Department of Mathematical Science STAT-211-Term042-II

Quiz #1

Section:

Name:

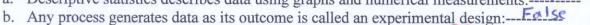
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Question One (10-Points)

Write **True** if the statement is true or **False** if not:

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



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 wards the following:

- a. Parameter: Any numerical measurment computed based on the entire population (2.5)
- b. Qualitative data: Data whose measurment scale is

 Categorical (2.5)

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.

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

3. Select any number between 1 4 80 randomly

4. Suppose the random number is 15, then the sample is:

15, 95, 175, 255, ... etc.