

Course No: BSNE1308  
 Course Title: Principal of statistic  
 Date: 13 / 3/ 2019  
 No. of Questions: (3)  
 Time: 1 hours  
 Using Calculator (yes)

University of Palestine



1<sup>st</sup> Midterm Exam  
 2018/2019  
 Total Grade :15

Instructor : Assem -Bashar- Osma  
 Student No.: \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Dep. / Specialist: \_\_\_\_\_  
 Using Dictionary (No)

**Question One:**

5 marks

**MULTIPLE-CHOICE**

- A summary measure that is computed to describe a characteristic of an entire population is called
  - a parameter.
  - a census.
  - a statistic.
  - the scientific method
- Which of the following is a discrete quantitative variable?
  - The Dow Jones Industrial average
  - The volume of water released from a dam
  - The distance you drove yesterday.
  - The number of employees of an insurance company
- The classification of student class designation (freshman, sophomore, junior, senior) is an example of
  - a categorical random variable.
  - a discrete random variable.
  - a continuous random variable.
  - a parameter.
- Which of the following statistics is not a measure of central tendency?
  - Arithmetic mean.
  - Median.
  - Mode.
  - Range.
- In a perfectly symmetrical distribution
  - the range equals the interquartile range.
  - the interquartile range equals the arithmetic mean.
  - the median equals the arithmetic mean.
  - the variance equals the standard deviation

**TRUE OR FALSE**

- The amount of water consumed by a person per week is an example of a continuous variable.
- The median of the values 3.4, 4.7, 1.9, 7.6, and 6.5 is 1.9.
- In right-skewed distributions, the median largest than arithmetic mean .
- The Z scores can be used to identify outliers.
- Approximately 68% of the data in a bell-shaped distribution lies within  $\mu \pm 2\sigma$

Question	1	2	3	Sum
mark				

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**Question Tow:**

**5 marks**

The data below represent the amount of grams of carbohydrates in a serving of breakfast cereal in a sample of 8 different servings.

15 , 59 , 23 , 19 , 11 , 15 , 25 , 17.

Calculate the following measurements:

A) Variance and standard deviation

**(3 marks)**

B) Coefficient of Variation.

**(1 mark)**

C) Decided whether the value 59 is outlier or not?

**(1 marks)**

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**Question Three:**

**5 marks**

Q2) Weights of 24 students are distributed as follows:

60	77	80	55	59	70
76	50	89	78	72	110
90	50	67	89	95	88
93	57	100	105	65	120

- Develop a frequency distribution and relative frequency with 5 classes.
- Plot the histogram.
- Construct the cumulative relative frequency table and a cumulative relative polygon .

class	frequency	Relative frequency	class	Less Than Lower Boundary	cumulative relative frequency

**Graph on the back of the paper**

**The end of the questions With best wishes for all**