R Exams

Statistics Exam 2019-03-14 **Exam ID 00003**

Name: _____

Student ID: _____

Signature: _____

1. (a) ☐ (b) ☐ (c) ☐
2. (a) ☐ (b) ☐ (c) ☐
3. (a) ☐ (b) ☐ (c) ☐
4. (a) ☐ (b) ☐ (c) ☐
5. (a) ☐ (b) ☐ (c) ☐
6. (a) ☐ (b) ☐ (c) ☐
7. (a) ☐ (b) ☐ (c) ☐
8. (a) ☐ (b) ☐ (c) ☐
9. (a) ☐ (b) ☐ (c) ☐
10. (a) ☐ (b) ☐ (c) ☐
11. (a) ☐ (b) ☐ (c) ☐
12. (a) ☐ (b) ☐ (c) ☐

13. (a) ☐ (b) ☐ (c) ☐

14. (a) ☐ (b) ☐ (c) ☐

15. (a) ☐ (b) ☐ (c) ☐ (d) ☐ (e) ☐

16. (a) ☐ (b) ☐ (c) ☐ (d) ☐ (e) ☐

17. (a) ☐ (b) ☐ (c) ☐ (d) ☐ (e) ☐ (f) ☐ (g) ☐

18. (a) ☐ (b) ☐ (c) ☐ (d) ☐ (e) ☐ (f) ☐ (g) ☐

19. (a) ☐ (b) ☐ (c) ☐ (d) ☐

20. (a) ☐ (b) ☐ (c) ☐

21. (a) ☐ (b) ☐ (c) ☐

22. (a) ☐ (b) ☐ (c) ☐

23. (a) ☐ (b) ☐ (c) ☐ (d) ☐ (e) ☐

24. (a) ☐ (b) ☐ (c) ☐ (d) ☐ (e) ☐ (f) ☐

1. A characteristic of interest is called a parameter when it refers to the characteristic in a sample.
   (a) Not enough information
   (b) FALSE
   (c) TRUE
2. The mean of quantitative variables is often represented with x with a bar over it for the population parameter.
   (a) FALSE
   (b) TRUE
   (c) Not enough information
3. What is the statistical meaning of population?
   (a) All of the members of a group you're interested in.
   (b) There's no such concept in statistics.
   (c) It's always all of the people in an entire country.
4. The standard deviation of quantitative variables is often represented with a Greek sigma (σ) for the sample statistic.
   (a) TRUE
   (b) Not enough information
   (c) FALSE
5. Population parameters are usually represented using Roman letters (normal ABCs).
   (a) TRUE
   (b) Not enough information
   (c) FALSE
6. If data are normally distributed, the mean and the medial will not be equal.
   (a) TRUE
   (b) Not enough information
   (c) FALSE
7. Normally distributed data are semetrical.
   (a) FALSE
   (b) Not enough information
   (c) TRUE
8. The mean is a good measure of central tendency when the data are normally distributed.
   (a) TRUE
   (b) Not enough information
   (c) FALSE
9. The value for the mean is always an actual value in the data set.
   (a) Not enough information

(b) FALSE
(c) TRUE

10. The mode is always an actual value in the data set.
    (a) FALSE
    (b) TRUE
    (c) Not enough information
11. Variation is not important in statistics.
    (a) TRUE
    (b) FALSE
    (c) Not enough information
12. Variance is in squared units.
    (a) FALSE
    (b) Not enough information
    (c) TRUE
13. A large standard deviation means the mean represents the data well.
    (a) FALSE
    (b) Not enough information
    (c) TRUE
14. A small standard deviation means the mean represents the data well.
    (a) FALSE
    (b) Not enough information
    (c) TRUE
15. Given the following data set [1,2,3,4,5], what is the third quartile?
    (a) 1.58
    (b) 2.5
    (c) 4
    (d) 3
    (e) 2
16. Given the following data set [1,2,3,4,5], what is the range?
    (a) 3
    (b) 1.58
    (c) 2.5
    (d) 2
    (e) 4
17. Given the following data set [1,3,5,7,9], what is the mean?
    (a) 4
    (b) 3.16

(c) 5
(d) 7
(e) 10
(f) 3
(g) 8

18. Given the following data set [1,3,5,7,9], what is the IQR?

(a) 10
(b) 5
(c) 4
(d) 7
(e) 8
(f) 3.16
(g) 3

19. A data point has the value of 7.5 and the mean of the data set is 10. What is the deviation score?

(a) -3
(b) 7
(c) -2.5
(d) 3

20. Sometimes the scale of a plot can make differences look larger or smaller than they really are.

(a) FALSE
(b) Not enough information
(c) TRUE

21. Boxplots are useful for seeing outliers.

(a) Not enough information
(b) FALSE
(c) TRUE

22. Histograms are usefule for seeing how data are distributed.

(a) Not enough information
(b) TRUE
(c) FALSE

23. img:“hist_norm.jpeg” Select the statements that are true.

(a) The data are right skewed.
(b) The data are leptokurtic.
(c) The data are left skewed.
(d) The data are normally distributed.
(e) The data are platykurtic.

24. img:“box_plat.jpeg” Select the statements that are true.

    (a) There are no outliers.
    (b) There are outliers with large values.
    (c) The data are left skewed.
    (d) There are outliers with small values.
    (e) The data are symetrically distributed.
    (f) The data are right skewed.