**STATISTICS WORKSHEET -6**

Which of the following can be considered as random variable?

d) All of the mentioned

2. Which of the following random variable that take on only a countable number of possibilities?

c) Continuous

3. Which of the following function is associated with a continuous random variable?

a) pdf

4. The expected value or \_\_\_\_\_\_\_ of a random variable is the center of its distribution.

c) mean

5. Which of the following of a random variable is not a measure of spread?

a) variance

6. The \_\_\_\_\_\_\_\_\_ of the Chi-squared distribution is twice the degrees of freedom.

a) variance

7. The beta distribution is the default prior for parameters between \_\_\_\_\_\_\_\_\_\_\_

c) 0 and 1

8. Which of the following tool is used for constructing confidence intervals and calculating standard errors for difficult statistics?

b) bootstrap

9. Data that summarize all observations in a category are called \_\_\_\_\_\_\_\_\_\_ data.

b) summarized

10. What is the difference between a boxplot and histogram?

Ans. Histograms are used to show instances or a total number whereas, box plot is a type of chart that compactly shows you several distribution statistics. Box plot also indicates the average, median, outliers, etc.