WORKSHEET STATISTICS WORKSHEET- 6

Q1 to Q9 have only one correct answer. Choose the correct option to answer your question.

1. Which of the following can be considered as random variable?

a) The outcome from the roll of a die b) The outcome of flip of a coin c) The outcome of exam d) All of the mentioned

Ans all of the mentioned

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

a) Discrete b) Non Discrete c) Continuous d) All of the mentioned

Ans discrete

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

a) pdf b) pmv c) pmf d) all of the mentioned

Ans pdf

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

a) mode b) median c) mean d) bayesian inference

Ans mean

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

a) variance b) standard deviation c) empirical mean d) all of the mentioned

Ans empirical mean

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

a) variance b) standard deviation c) mode d) none of the mentioned

Ans standard deviation

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

a) 0 and 10 b) 1 and 2 c) 0 and 1 d) None of the mentioned

Ans 0 and 1

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

a) baggyer b) bootstrap c) jacknife d) none of the mentioned

Ans bootstrap

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

a) frequency b) summarized c) raw d) none of the mentioned

Ans summarized

Q10and Q15 are subjective answer type questions, Answer them in your own words briefly.

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

11. How to select metrics?

12. How do you assess the statistical significance of an insight?

13. Give examples of data that doesnot have a Gaussian distribution, nor log-normal.

14. Give an example where the median is a better measure than the mean.

15. What is the Likelihood?