

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**
 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
 3. Which of the following function is associated with a continuous random variable?
 - a) **pdf**
 - b) pmv
 - c) pmf
 - d) all of the mentioned
 4. The expected value or _____ of a random variable is the center of its distribution.
 - a) mode
 - b) median
 - c) **mean**
 - d) bayesian inference
 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
 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**
 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
 8. Which of the following tool is used for constructing confidence intervals and calculating standard errors for difficult statistics?
 - a) baggyer
 - b) **bootstrap**
 - c) jackknife
 - d) none of the mentioned
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9. Data that summarize all observations in a category are called _____ data.
- a) frequency
 - b) **summarized**
 - c) raw
 - d) none of the mentioned

Q10 and 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?