

## STATISTICS WORKSHEET- 6

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

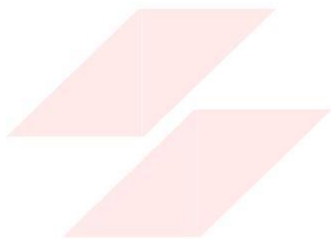
1. Which of the following can be considered as random variable?
  - a) The outcome from the roll of a die
  - b) The outcome of flip of a coin
  - c) The outcome of exam
  - ☒ d) All of the mentioned
2. Which of the following random variable that take on only a countable number of possibilities?
  - ☒ 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

mean is right answer
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

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?



**FLIP ROBO**