STATISTICS WORKSHEET-1

Q1 to Q9 have only one correct answer.

Choose the correct option to answer your question.

- 1. Bernoulli random variables take (only) the values 1 and 0.
- a) True
- 2. Which of the following theorem states that the distribution of averages of iid variables, properly normalized, becomes that of a standard normal as the sample size increases?
- a) Central Limit Theorem
- b) Central Mean Theorem
- c) Centroid Limit Theorem
- d) All of the mentioned
- 3. Which of the following is incorrect with respect to use of Poisson distribution?
- a) Modeling event/time data
- b) Modeling bounded count data
- c) Modeling contingency tables
- d) All of the mentioned
- 4. Point out the correct statement.
- a) The exponent of a normally distributed random variables follows what is called the lognormal distribution
- b) Sums of normally distributed random variables are again normally distributed even if the variables are dependent
- c) The square of a standard normal random variable follows what is called chi-squared distribution

d) All of the mentioned

5	random	variables are	used to	o model	rates.
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- a) Empirical
- b) Binomial
- c) Poisson
- d) All of the mentioned
- 6. 10. Usually replacing the standard error by its estimated value does change the CLT.
- a) True
- b) False

 7. 1. Which of the following testing is concerned wit a) Probability b) Hypothesis c) Causal d) None of the mentioned 	h making decisions using data?
8. 4. Normalized data are centered at and had original data. a) 0 b) 5 c) 1 d) 10	ave units equal to standard deviations of the

- 9. Which of the following statement is incorrect with respect to outliers?
- a) Outliers can have varying degrees of influence
- b) Outliers can be the result of spurious or real processes
- c) Outliers cannot conform to the regression relationship
- d) None of the mentioned