

## **STATISTICS WORKSHEET-1**

## $\mathbf{Q1}$ to $\mathbf{Q9}$ 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	b) False
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
	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 log- normal
	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 random variables are used to model rates. a) Empirical
5.	random variables are used to model rates.
	a) Empirical
	b) Binomial
	Poisson
	d) All of the mentioned
6.	J. P. S. C.
	a) True
_	b) False
7.	
	a) Probability
	b Hypothesis
	c) Causal
	d) None of the mentioned
8.	4. Normalized data are centered atand have units equal to standard deviations of the
	original data.
	b) 5
	c) 1
	d) 10
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
	Outliers cannot conform to the regression relationship
	d) None of the mentioned



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

- 10. What do you understand by the term Normal Distribution?
- 11. How do you handle missing data? What imputation techniques do you recommend?
- 12. What is A/B testing?
- 13. Is mean imputation of missing data acceptable practice?
- 14. What is linear regression in statistics?
- 15. What are the various branches of statistics?

