

STATISTICS WORKSHEET-5

Q1 to Q10 are MCQs with only one correct answer. Choose the correct option.

- 1. Using a goodness of fit,we can assess whether a set of obtained frequencies differ from a set of frequencies. a) Mean
 - b) Actual
 - c) Predicted
 - d) Expected

ANSWER: Expected

- 2. Chisquare is used to analyse
 - a) Score
 - b) Rank
 - c) Frequencies
 - d) All of these

ANSWER: Frequencies

- 3. What is the mean of a Chi Square distribution with 6 degrees of freedom? a) 4
 - b) 12
 - c) 6
 - d) 8

ANSWER: 6

- 4. Which of these distributions is used for a goodness of fit testing?
 - a) Normal distribution
 - b) Chisqared distribution
 - c) Gamma distribution
 - d) Poission distribution

ANSWER: Chisquared distribution

- 5. Which of the following distributions Continuous
 - a) Binomial Distribution
 - b) Hypergeometric Distribution
 - c) F Distribution
 - d) Poisson Distribution

ANSWER: F distribution

- 6. A statement made about a population for testing purpose is called? a) Statistic
 - b) Hypothesis
 - c) Level of Significance
 - d) TestStatistic

Answer: Hypothesis	An:	swer:	Hypc	thesis
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Explanation: Hypothesis is a statement made about a population in general. It is then tested and correspondingly accepted if True and rejected if False.

- 7. If the assumed hypothesis is tested for rejection considering it to be true is called? a) Null Hypothesis
 - b) Statistical Hypothesis
 - c) Simple Hypothesis
 - d) Composite Hypothesis

Answer: Null Hypothesis

Explanation: If the assumed hypothesis is tested for rejection considering it to be true is called Null Hypothesis. It gives the value of population parameter.

- 8. If the Critical region is evenly distributed then the test is referred as? a) Two tailed
 - b) One tailed
 - c) Three tailed
 - d) Zero tailed

Answer: Two

Explanation: In two tailed test the Critical region is evenly distributed. One region contains the area where Null is accepted and another contains the area where it is rejected.

Hypothesis

- 9. Alternative Hypothesis is also called as?
 - a) Composite hypothesis
 - b) Research Hypothesis
 - c) Simple Hypothesis
 - d) Null Hypothesis

Answer: Research Hypothesis

Explanation: Alternative Hypothesis is also called as Research Hypothesis. If the Null Hypothesis is false then Alternative Hypothesis is accepted.



WORKSHEET

10.	In a Binomial Distribution, if 'n' is the number of trials and 'p' is the	ıe
	probability of success, then the mean value is given by	

a) np

b) n

Answer: np

Explanation: For a discrete probability function, the mean value or the expected value is given by Mean $(\mu)=\sum_{n=0}^{\infty} p(x)$

For Binomial Distribution $P(x)={}^{n}C_{x}$ p^{x} $q^{(n-x)}$, substitute in above equation and solve to get $\mu=np$.

