Statistics Worksheet

Q1. Using a goodness of fit, we can assess whether a set of obtained frequencies differ from a set of frequencies?

Ans: D. (Expected)

Note: Goodness of fit is a measure of how well a statistical model fits a set of observations When goodness of fit is high, the values are close to the observed values. When goodness of fit is low from the observed values.

Q2. Chi-square is used to Analyze?

Ans: C (Frequencies)

Note: Chi-square test is used with nominal or category data (minimum two) in the form of frequency counts.

Q3. What is the mean of a Chi Square distribution with 6 degrees of freedom?

Ans: C (6)

Note: Chi-square test is used with nominal or category data (minimum two) in form of frequency counts

Q4. Which of these distributions is used for a goodness of fit testing?

Ans: D (Poisson Distribution)

Note: The chi-square test is the most commonly used to test the goodness of fit tests and is used for discrete distributions like the binomial distribution and the Poisson distribution,

Q5. Which of the following distributions is Continuous?

Ans: C (F Distribution)

Q6. A statement made about a population for testing purpose is called?

Ans: B (Hypothesis)

Q7. If the assumed hypothesis is tested for rejection considering it to be true is called?

Ans: A (Null Hypothesis)

Q8. If the Critical region is evenly distributed then the test is referred as?

Ans: A (Two Tailed)

Q9. Alternative Hypothesis is also called as?

Ans: B (Research Hypothesis)

Q10. In a Binomial Distribution, if ‘n’ is the number of trials and ‘p’ is the probability of success, then the mean value is given by?

Ans: A (np)