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**Assessment 5: PFA of Worksheet Set 2**

**STATISTICS WORKSHEET**

**Solutions**

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

**Answer: d) Expected**

**2**. Chisquare is used to analyze

**Answer: c) Frequencies**

**3**. What is the mean of a Chi-Square distribution with 6 degrees of freedom?

**Answer: c) 6**

**Note:** The mean (expected value) of a Chi-Square distribution is equal to its degrees of freedom. In this case, the question mentions a Chi-Square distribution with 6 degrees of freedom, so the mean is also 6.

For a Chi-Square distribution with \( k \) degrees of freedom, the mean is \( k \).

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

**Answer: b) Chi-squared distribution**

**5**. Which of the following distributions is Continuous?

**Answer: c) F Distribution**

**6**. A statement made about a population for testing purposes is called?

**Answer: b) Hypothesis**

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

**Answer: a) Null Hypothesis**

**8**. If the Critical region is evenly distributed, then the test is referred to as?

**Answer: a) Two-tailed**

**9**. Alternative Hypothesis is also called as?

**Answer: b) Research Hypothesis**

1. 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:

**Answer: a) np**