STATISTICS – WORKSHEET 3

Q1 to Q15 are MCQs with one or more than one correct answer. Choose all the correct options.

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
2. Chi-square is used to analyse:
   A) Score B) Rank
   C) Frequencies D) All of these
3. What is the mean of a Chi Square distribution with 6 degrees of freedom?
   A) 4 B) 12
   C) 6 D) 8
4. Which of these distributions is used for a testing hypothesis?
   A) Normal distribution B) Chi - squared distribution
   C) Gamma distribution D) Poisson distribution
5. Which of the following distributions is Continuous?
   A) Binomial Distribution B) Hyper-geometric Distribution
   C) F-Distribution D) Poisson Distribution
6. A statement made about a population for testing purpose is called?
   A) Statistic B) Hypothesis
   C) Level of Significance D) Test-Statistic
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
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
9. Alternative Hypothesis is also called as?
   A) Composite hypothesis B) Research Hypothesis
   C) Simple Hypothesis D) Null Hypothesis
10. 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 _____
    A) np B) n
    C) p D) np(1-p)
11. Binomial Distribution is a _____.
    A) Continuous distribution B) Discrete distribution
    C) Irregular distribution D) Not a Probability distribution
12. If 'p', 'q' and 'n' are probability pf success, failure and number of trials respectively in a Binomial Distribution, what is its Standard Deviation?
    A) $\sqrt{np}$ B) $\sqrt{pq}$
    C) $(np)^2$ D) $\sqrt{npq}$----
13. A Null Hypothesis has Level of Significance 9%. For what values of Level of Significances it will be rejected?
    A) 0.99 B) 0.009
    C) 0.099 D) 0.9
14. The range of Level of Significance lies between _____.
    A) $-\infty$ and 0 B) $-\infty$ and ∞
    C) 0 and ∞ D) 0 and 1
15. The effect of rejection of a hypothesis with decrease in sample size _____.
    A) decreases B) increases
    C) remains constant D) fluctuates