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) fMean   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 of 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