

## STATISTICS WORKSHEET-5

Date – 13<sup>th</sup> March 2024

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. Chi square 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. **Mean value (Chi Square) = distribution number**

**So, Mean = 6**

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

- (a) Normal distribution  
(b) Chi squared distribution  
(c) Gamma distribution  
(d) Poission distribution

Answer - **Chi squared distribution**

5. Which of the following distributions is 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) Test Statistic

Answer - Hypothesis

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

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 tailed

9. Alternative Hypothesis is also called as?

- a) Composite hypothesis
- b) Research Hypothesis
- c) Simple Hypothesis
- d) Null Hypothesis

Answer - Research 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      Mean = np

Answer – np

mean (expected value) and n is the number of trials, and p is the probability of success.