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COURSE TITLE : DEMOGRAPHY AND BIOSTATISTICS

COURSE CODE : STA 312

QUESTIONS

1. What do you understand by hypothesis testing
2. Differentiate between the classical and the p-value approach for the hypothesis testing
3. What is the importance of hypothesis testing in research

Answer

1. Hypothesis testing is about testing to see whether the stated hypothesis is acceptable or not. It is a supposition or proposed explanation made on the basis of limited evidence as a starting point for further investigation . Hypothesis testing can be simply defined as a statement about one or more population set up for the purpose of being discredited or approved .
2. Classical approach : is the first approach to hypothesis testing , it computes a test statistic from the empirical data and then makes a comparison with the critical value . It compares a test statistics and critical value

WHILE

 P-value : it gives the probability that a random sample from the population claimed by the null hypothesis would have produced a more unlikely test statistic value than the one actually obtained. It is a number that tells us how unusual our sample results are given that the null hypothesis is true .

1. The importance of hypothesis testing is that it guides and gives direction to specific research ,research remains unfocused without a hypothesis

It also assists clinicians ,administrators and researchers in making wise decisions which usually depends on the statistical decisions