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**ANSWERS**

1. 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**

The Classical Approach to hypothesis testing is to compare a test statistics and a critical value. It is the best used for distributions which gives areas and require to look up the critical value rather than distributions which look up a test statistic to find an area.

**P-Value Approach**

The P-Value Approach, short for Probability Value, approaches hypothesis testing from a different manner. Instead of comparing z-scores or t-scores as in the classical approach, this compares probabilities and areas.

The level of significance (alpha) is the area in the critical region. That is, the area in the tail of the right or left of the critical values.

The p-value is the area to the right or left of the test statistic. If it is a two tail test, then look up the probability in one tail and double it.

If the test statistics is in the critical region, then the p-value will be less than the level of significance. It does not matter whether it is a left tail, right tail, or two tail test. This rule always holds.

1. The importance of hypothesis testing is to assist administrators, clinicians and researchers in making wise decisions which usually depends on the statistical decision.