(3

Hypothesis -> statement (question)

- i) Ho: -> original hypothesis

 H_: -> Alternative hypothesis
- ii) Level of significance: \(= 0.05 \)
- iii) Test Statistic:

formula to calculate

iv) Computation:

Substitute the values in test-statistics (formula).

- v) Critical region: (a table value)
 Rejection Region (a probabitity value)
- vi) Conclusion:

Accept H.

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Reject H.

Type I error:

true null hypothesis is rejected.

Type II error:

false null hypothesis is accepted.

Conditions of Ho.

True

False - test (1)

accept H.

Correct

Type II error

myesy lostino (v

Reject H. Type I error

inoitatuques (vi correct

	n <30	$n \geqslant 30$
6 known	Z= x-14 6/15	$Z = \frac{\overline{x} - \mu}{6/\pi}$
бunknown = S	$t = \frac{\overline{x} - \mu}{s/m}$	Z = x-m s/m

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P values: -> Probability values

how unusual sample results are, given that the null hypothesis is true.

probability of not confiden

P value is the Smallest value of a for which we can reject a null hypothesis.

Hypothesis Testing about a single population Mean (i.e; µ):

(iii) Test - Statistics:

or

$$Z = \frac{\bar{X} - \mu_0}{s/\sqrt{n}}$$

or

$$t = \frac{\bar{x} - \mu_0}{s/\sqrt{n}}$$

3

iv) Computations:

$$U = \dot{s}$$
 $\underline{X} = \dot{s}$ $\eta^{\circ} = \dot{s}$

$$\overline{X} = 7$$



v) Critical region:

Case a:
$$Z > Z_{1-\alpha}$$