

SNS COLLEGE OF ENGINEERING

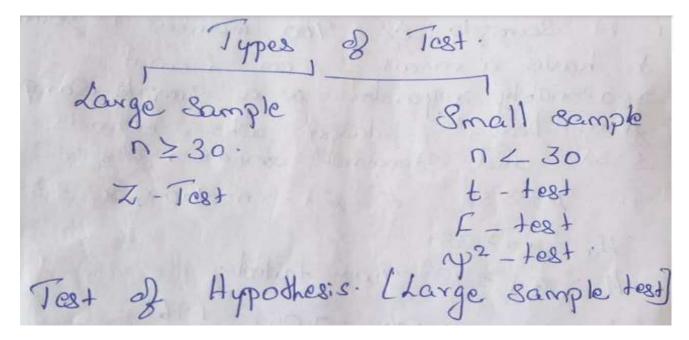
Kurumbapalayam (Po), Coimbatore - 641 107



AN AUTONOMOUS INSTITUTION

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Topic: 1.2 – Large sample test based on Normal distribution- single mean



Problems:

A Sample of 900 members is sour do have a mean 3.5 cm. Counit reasonably regarded as a simple sample some large population whose mean is 3.38 and standard deviation 2.4 cm? $\mu = 3.38$ G = 2.4 G = 3.38 G = 3.38 G = 3.4 G = 3.38 G



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore - 641 107



AN AUTONOMOUS INSTITUTION

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Chitical Value. #

At 5% Level $Z_{z=1.96}$.

Conclusion.

1.5 \(\text{1.96} \)

. Ho is accepted at 5% level of Significance.

A random Sample of 200 Employers

It a large corporation showed their average

age to be 42.8 years with a S.D of

6.8 yrs. Test the hypothesis 40: µ=40

Vensus H.: µ>40 at d=0.01 Los.

Ho: µ=40

H: µ>40 (One tailed Right)

µ=40, x=42.8, n=200, S=6.8

LOS => 1.1.

Test statistics

Z = 5c-µ

=/15



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore - 641 107



AN AUTONOMOUS INSTITUTION

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

$$Z = \frac{42.8 - 40}{6.8 / 200} = 5.747$$
.

Chilical Value.

At 14. $Z_2 = 2.33$

Conclusion.

5.747 > 2.33.

Ho rejected at B_1 . level.

3. A Sample of 900 members has a mean of 3.4 cms and 8.D 2.61 cms.
Is the sample from a large Population of mean 3.25 cm and 8.D. 2.61 cms