Hypothesis Festing Chapter 9: Use sample to test hypothesis about M. We will sample Use sample Statistics To Make conclusion (Prediction) Make conclusion (Prediction) about population M = ?? In any hypothesis testing, there are two hypotheses: I The Null & hypothesis : Ho: is the researcher claim 2) The Alternative hypothesis :- Ha :- is the opposite of Ho 9.2 Type I and Type II Conclusion Ho True Researcher STUDENTS-HUB.com Ho Type I Regelt Ho Error Ho False Correct Conclusion Uploaded By: 1210711@student.birzeit.edu Typett error Correct I man had at Accept Ho Conclusion when Ho is True Det & Def. Type I error:-Rejecting Ho of Making typeI the prob. Significance level X = Type II error: Accepting Ho when Ho is False

9.3 <u>G</u> Known 9.4 O Un Know In general, the steps for testing are:-1) Write the hypotheses Ho, Ha. 2) Find the test statistics: a value of Zor (+) 3) Test Using Critical Value or <u>Prvalue Approach</u> 4 Conclusion 5: known test statistics is Z= X-Mo Vo ** * Hypothesis:-Ho: M=Mo (two tailed test) Ha : M = Mo STUDENTS-HUB.com Statistics :- $Z = \frac{X - M_{\odot}}{5}$ Uploaded By: 1210711@student.birzeit.edu Critical value : + Za Conclusion: - Reject Ho->171> Zx -Z Z Accept Ho - + 1712 Zaz

X AD	$11 \odot 14$ sicir	1
	Hypothesis1-	

Test Statistics Z= X-Mo

Ho : M 7 Mo Ha : M < Mo Lower tailed test

Reject Ho 1 Gritical Value: - Za Aceept Ho Conclusion Z < -Z Reject to Z7 Za Accept Ho Ho: M& Mo upper tailed Ha: M7Mo test Jail At Hypothesis Z= X-M. Reject 16 Accept Ho test Statistics :-

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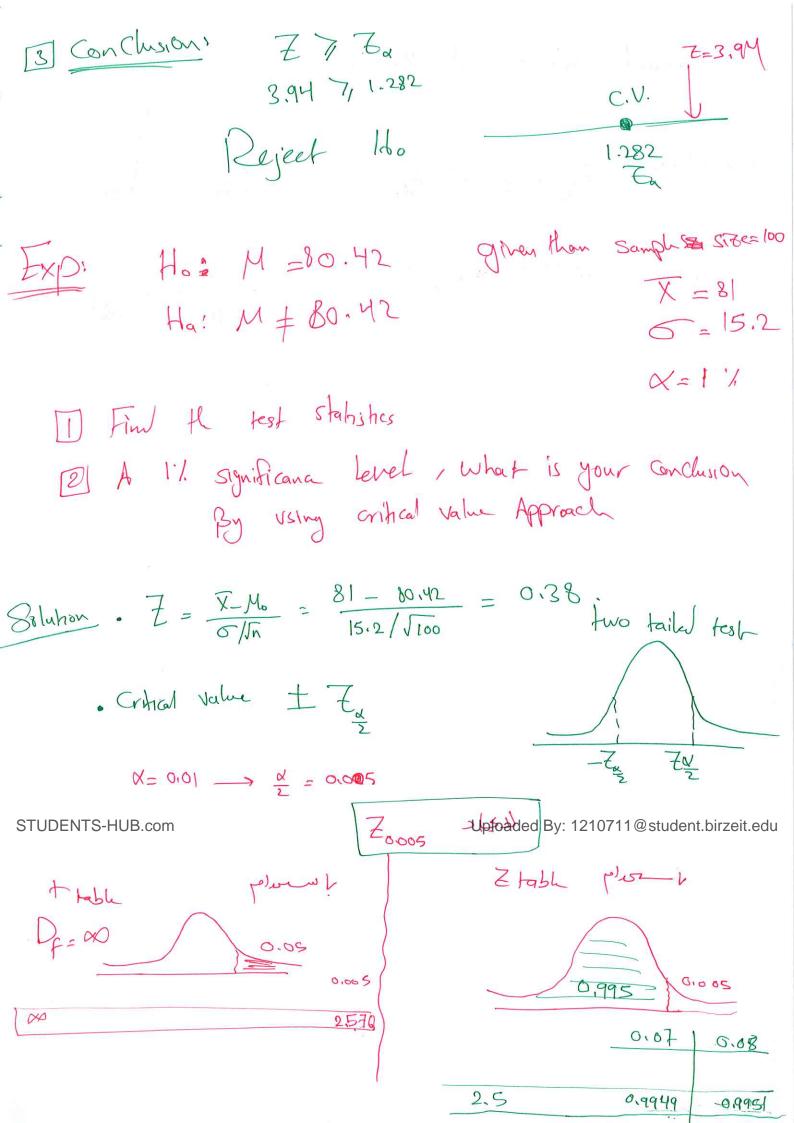
Critical Value

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ZZZ Reject Ho Z < Zx Accept Ho.

Ex. Ho =
$$M \le 20$$

Ha: $M > 20$
 $X = 28$
 $S = 4.5$ (. Norm)
II Find H test Settishes. $x = 10\%$
 $Z = Find K Contral Value
 $M = M > 20$
 $M = 23 - 20 = 3.94$
 $M = 20$
 $M = 23 - 20 = 3.94$
 $M = 20$
 $M = 20$
 $M = 20$
 $M = 23 - 20 = 3.94$
 $M = 20$
 $M = 20$$



Critical Value ± 2.576 · conclusion: - Zx < Z < Z -2.576 2.576 5=0.38 Accept Ho (Pait Reject Ho)

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