Interential Statistics Moximy Assumption & conclusion when we have sample bata regarding Population AGEMAQ 10 Hy Pothes is testing 3. Comfidence in terrof 4 Significance value > Hy Pothesis testing Ju order to rapidate arramption Conclusion we use Hypothesis testing types of Hypnothesis festing Assum PHON (Population => NOLL HyPothesis (Ho) (Sample) - comcinion NOIT HYPDITHEN (HO) IS default & takement Hypothesis testin

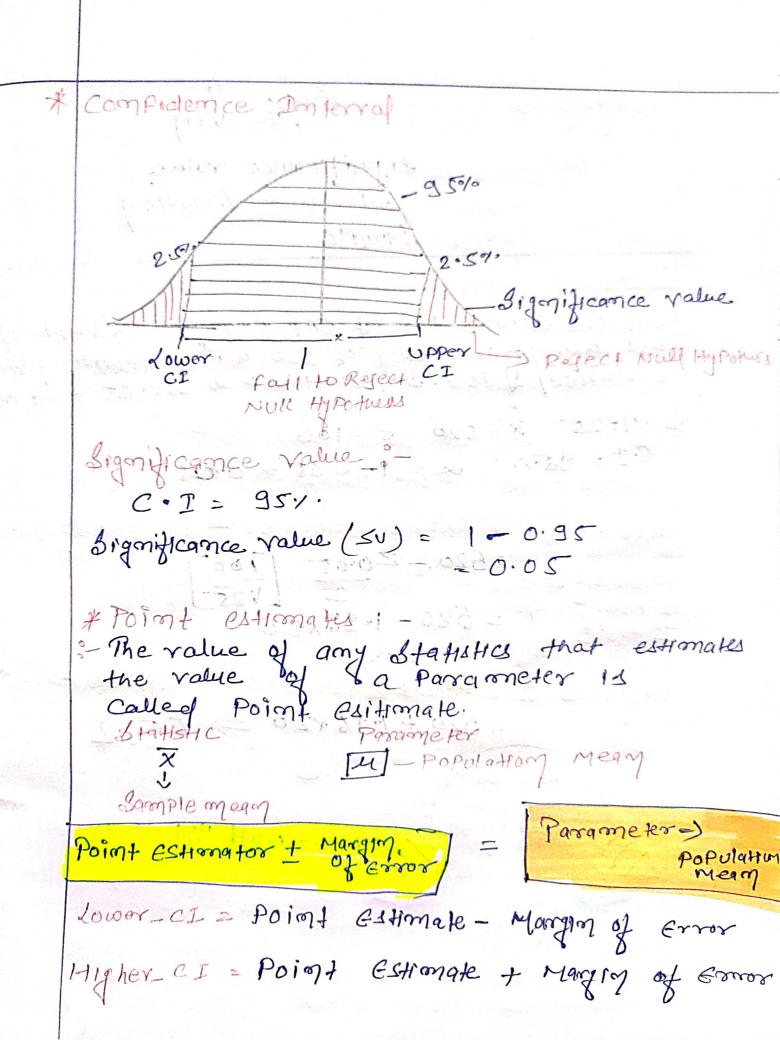
Al termative Hypothesis (H)

A Person is mot Criminal

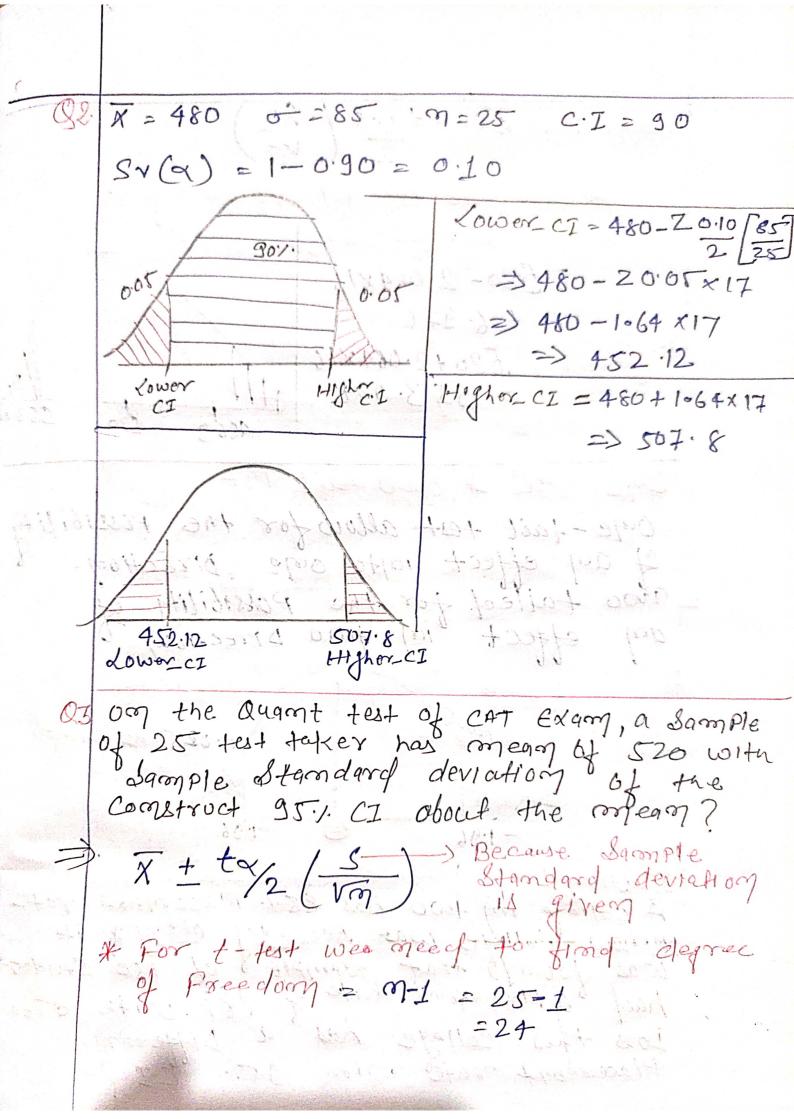
D Person is mot Criminal

D Person is Criminal

(3) Experiment / Proof: - DNA / Frager Print/ (weapon) eye wit new



Marging of Error D = 4/2 VM where, a = dignificance value - = & tandard deviation Vm = 5999918, Question I am the Quant test of CAT Exam, a Sample of test taker has omeny of 520 with Population story deviation of 100. So, construct a 35%. CI about the no => M=25 R=520 5=100 CI = 95%. Q= 1-0.95 = 0.005 Lower CI = Point Estimater - Margin of Error The state of z = 520 - Z0.05 [100] 2 [V25] = 520 - 1.96 x 20 the value of any 3.0341/2101 Higher_CI = Point astonator + Marsin of Error = 520 + 1-96 x20 => 559.2 fail to Reject wastl Hypothe Reject Null Hypothesis policy estimate white of



Lower_CI = 520 = + 0.5 I We are taking value of t ord from t- table 1005-03:520-2:064x16 11/8 +001-071 486. 976 1+1 short CI = 520+2.064×16 FINA = 2 2 553.024 One tail à troo tail Jest Done-tail test allow for the Possibility of an effect into one Direction. Two tailed for the Possibility effect in two Directions of tose Question A college in two has 85.1. Placement rate A new college was Recently open ? It was found that Sample 8 of 150 Student had a placement Rate of 88% with 5 241

Does this College has a Different Placement rate with 35%. C.I?

Greater than 85% on Right tall lesser than Est. on eleft felly one tail ometeril Assignation of the state of the HyPothesis testing Problem Q. A factory has a Machine that fills 80 ML to baby medicine in a bottle An Employee bolieves that Average of baby Medicine is mot 80 ML. using 40 Sample he Measure of the 78 mc with Standard deviation of 2.5? 1) State NULL & ALTERMATIVE Hypotusis 2) At 95% CI, is there emough evidence to Support Machine 1 working Property He on mate - All Step Lars peoplement2) NULL HYPOTHERM A terronative HYPOTHERM

HOZMZ80 H1= M280 Step 22 U=80 M240 X278 S22.5 C. I = 95 SV(a) = 0.05

Important Point * m>,36, or population standard devianing IN given => Z-test will be applied MC30 AND Sample Standard deviation 14 given: - t-test will be applied 0026 Accept the postusis Decistory Boundry calculate Z-test given we o

onclusion Decision Rule if Z = -5.05 12 less than -1.96 or greater than +186, Reject the NULL Hypothesis Reject the Hof There is Some Problem in Machine I A Complain Registered, the boys in a Government School are underfeed. Averange weight of Age 10 12 32kg with 85. D = 9 kg. A Sample of 25 Boys were delected from Govt. School p Ang. weight was found 29.5 kgs. with CI = 951. Check it M true or false) NULL Hypothesis = el = 32 Alternative = el 7 32 SteP-2 $Z-t^{2}S+=\frac{X-U}{5/Vm}=\frac{28.5-32}{9/V25}$ Conclusion -1.39 > -1096 Accept the NUIL Hypothesis at 95% CI We fail to Resect Null HypothesM

of The Box Fed well