## Assignment-4

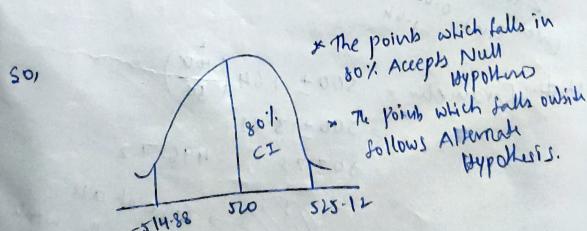
o) sur a quant test of the CAT exam, the population standard deviation is known to be 100. A sample of 25 tests taken has a mean of 520. construct an 80% CI about the mean?

SI: 1-CI 801. Voil = 1-80%. Given, 0=100 n=25 22 520 ?? 128 (1.29) Parameter. 2 Point Estimate + Error wkt,

2 x ± 2x = 1 wing 2-table 2 520 ± 20.1 100 2 520 ± 20.1 100 1.28(4)

histerfence = 520 + 1.28(4) | 520 - 1.28(4) | 520 - 514.88

Lower funce



-= 100 -> z-fest M=25 W=520 1225 0.15 CI=95% 520 Parameter = Pointshir + error V+ Ze/2 5 N+2005 100 a) Size of all Sharles in the world! N=500 500 Let, Assume, N=30 c= 100 CI = 901/1. SI=I-RI 190% using 2 table 0.95 -1.6H 500 using Ztable 2-1.64 (ve) sind. Histor Parameter = 500 + 1.64 (100) 2 500 ± 3.28 = 503.28, -496.72 > Size of all Sharles in the world with CI = 90%. 503-28 -496.72

a) In a Company there are 100k employees you need to order them large and XL-TShits.

In 500 Sample data 300 XL and 200 L. Find number of T. Shirls need to order?

X 100 K