300 July pood

a) In the quant test of CAT exam, the population standard deviation is known to be 100, A sample of 25 test taken has a mean of 520, construct a 30 %. C.I about mean

x > 1-0.8 > 0.2 0° 5100, n 525, 25 520

 $2\alpha/2 = 20.1 = -1.28$

Lower Fence > 520 - 1.28 (20) = 494.4 Higher Fonce = 520 + 1.28 (20) = 545.6

1 494.4 545.6

az) Given 100 K employees -> 300 KL, 200 L Sample 500 employees

Assuming

× 2 10,000, 5 2 5000 C.I > 95-1.

mz look Z0/2 > 1,96 00-05

Lowerfonce = 10,000 - 21.963 ($\frac{5000}{105}$) $\frac{7000}{2}$ ($\frac{5000}{23.123}$) $\frac{9,954,679}{2}$

Higher Fonce = 10,045.32