0) In the auant test of CATexam, the population S.O is known to be 100. A sample of 25 test takers has a mean of 520. Construct a 80%

of C.I about mean?

Ans:- Given:-
$$\sigma = 100$$
, $n = 25$, $\bar{x} = 520$, denver frequency fence $d = 1 - 0.8$

$$= 5i - 2d/2 \left(\frac{\sigma}{\sqrt{n}} \right)$$

$$= 520 - Z_{0.2} \left(\frac{100}{\sqrt{125}} \right) = 520 - Z_{0.1} (20)$$

$$= 520 - 1.29 (20) (... 2 - +able)$$

= 7 + 2/4 (5) $= 520 + 2_{0.2} \left(\frac{100}{\sqrt{25}} \right) = 520 + 2_{0.1} (20)$

545,8

494.2