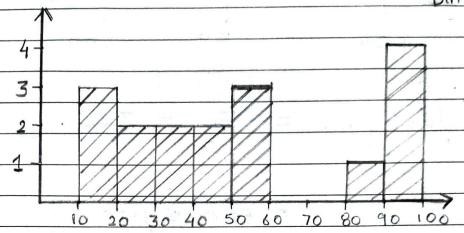


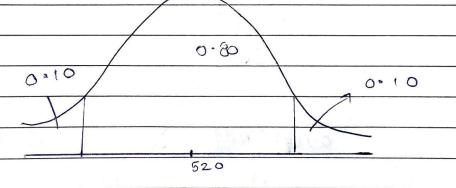
Q. Plot a histogram
10, 13, 18, 22, 27, 32, 38, 40, 45, 51, 56, 57, 88, 90, 92, 94, 99

Bin Size = 10



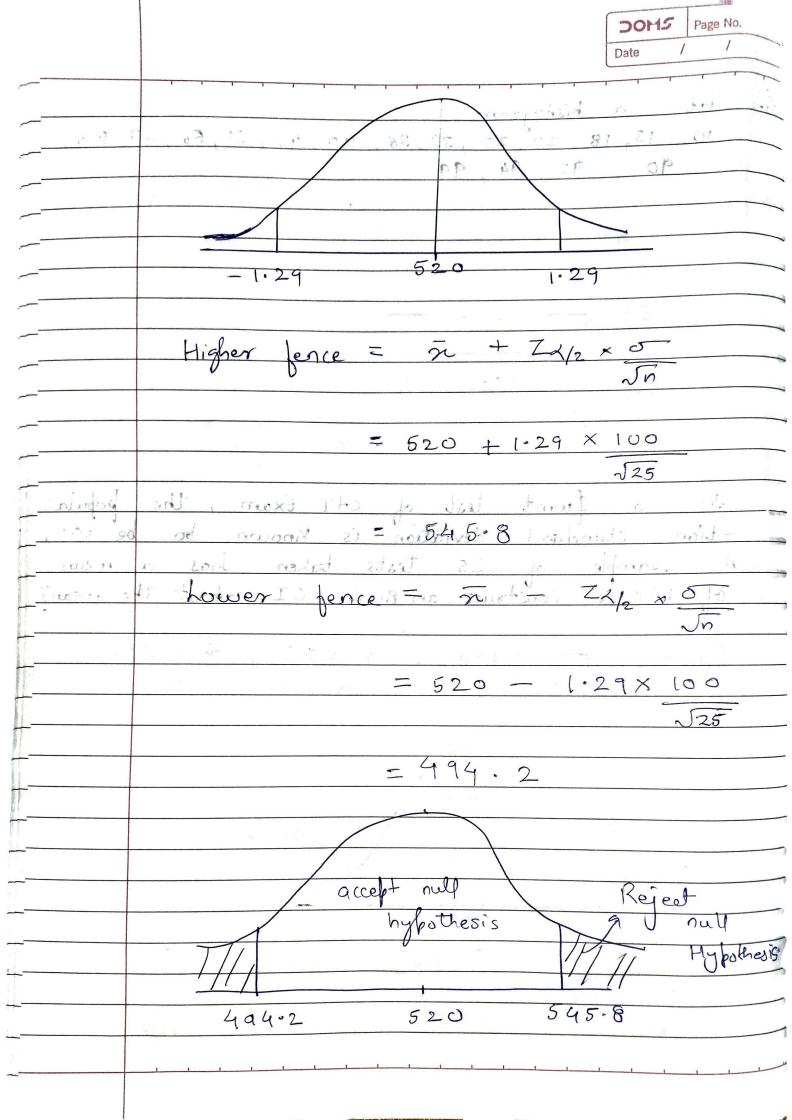
1. In a funt test of CAT Exam, the popula--tion standard deviation is known to be 100. A sample of 25 tests taken has a mean of 520. Construct an 80% CI about the mean?

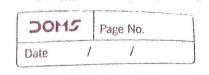
Civen,  $\sigma = 100$ ,  $\eta = 25$ ,  $\bar{\chi} = 520$ , C.T. = 80% d = 1 - 0.80 = 0.20



 $Z_{1/2} = Z_{0.29_{2}} = Z_{0.10}$ 

7-0.10 = 0.90 7-0.10 = 1.29 7-0.10 = 1.29 7-0.10 = 6



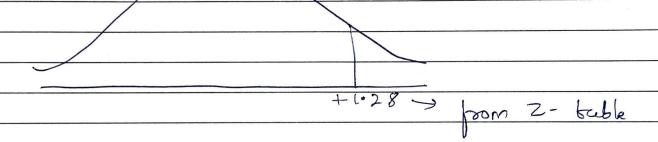


Ans. 3 Mull Hypothesis (Ho) = Po < 60%.
Alternate Hypothesis (H1) = Po > 60%.

$$n = 250$$
 ,  $n = 170$ 

$$\hat{\rho} = x = 170 = 0.68$$
 $\hat{\rho} = x = 250$ 

One tail test

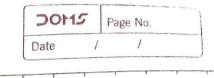


$$Z - test = \hat{p} - l_0 = 0.68 - 0.66$$

Test Statistics:

$$\frac{Z - \text{test}}{\sqrt{r}} = \frac{\hat{p} - p_0}{\sqrt{r}} = \frac{0.68 - 0.60}{\sqrt{0.6 \times 0.4}}$$

$$= 2.58$$



4.>	2, 2, 3, 4, 5, 5, 5, 6, 7, 8, 8, 8, 8, 8, 9,
tives and the constant proposal belongs and a second secon	9,10,11,11,12
medinalisas sagas nadespecia pessas a dissens	Value = Percentile x n
Miller (A Procedure) procedure in description (A Procedure (A Procedur	100
	= 94 × 26
	= 94 × 26
	= 19.8 inden
	So. 11 + 12 2 11.5
	about the state of
	•
5.>	Relation between mean mode and
	median,
	7
	mean, mode, median
	OUNT - OILAL ALCERTON - ALC
	SYMETRICAL DISTRIBUTION
	mean = mode = median
	mean = mode = median

