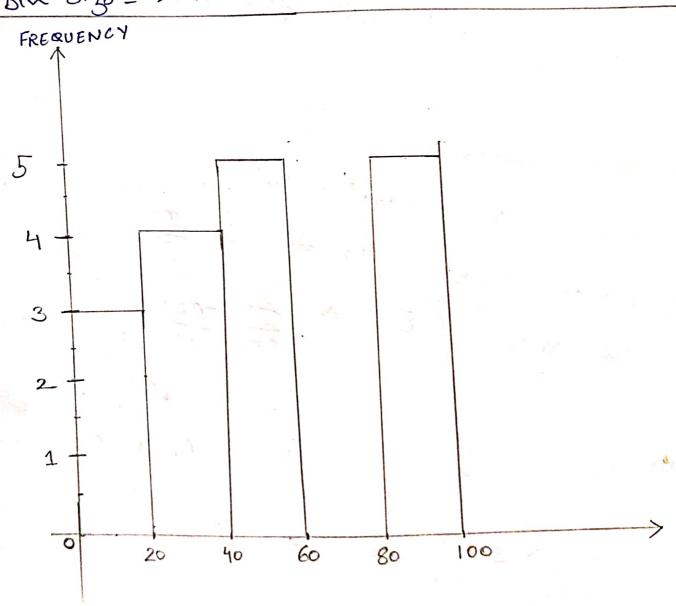
Assignment

<u>gue.1)</u> Plot a Histogram {10,13,18,22,27,32,38,40,45,51,56,57,88,90, 92,94,99}

Bins = 5 Bin Size = 20.



We have $\sigma = 100$, $\bar{\chi} = 520$, m = 25. Assuming & + Margin of Enrole = Parameter. 1 - CI = Significance 1 - 0.8 = 0.2 (x).Za/2 => Z 0.2 = 20.1 Entiel Arla = 1, So, 1-0.1 = 0.9. Neavest value is = 1.29. Highen Fence: Herce, Lower Ferce: -520+ (1.29) (100) $(520) - (1.29) (\frac{100}{5})$ = 545.8 => 494.2 Lower Fence = 494.2 Highen Fence = 545.8. Hypo Hesis. 545.8

1

Null Hyphothesis => Ho => po = 60% on 0.6 9.3 p, ≥ 60% of 0.6. Alternat Hyp > .. We have to prove that vehicle owned is 60%. Oh less we will use One-Tail Test. m = 250 $p = \frac{170}{250} = 0.68$ CI = 0.9Significance Level (a) = 0.1 Decision Boundary Acceptanu Acrea Rosea. & peie Lier -1.28 is the closest to area 0.1. since 0/0 = 1- po $Z = \frac{\hat{p} - p_0}{x} \times \sqrt{250}$ Now, 90 = 1-0.6 Tpo yo 90 = 6.4

0.08 × 15.811

Z = 0.68 - 0.6 x \ 250

J0.6X0.4

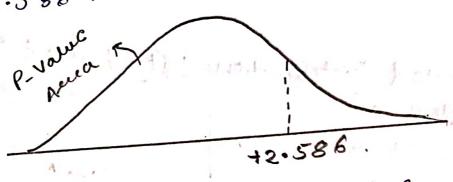
Z = 2.586.

: Z \(\frac{1}{2}\) 2.586 \(\frac{1}{2}\)

we raccept the Null Hypothesis and hence vehicle owned and 60% of less.

> With p. Value,

z= 2.586



Alua = 0.99506 = p - Value.

significance Value (a) = 0.1

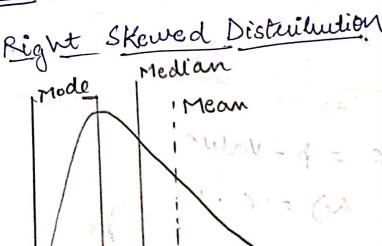
p-value > x. (0.93506) 7,0.11

We raccept the null hypothesis. Vehicle owned and 60% of less. Alere & month of the ment 1912 4011

$$\frac{2}{5} = \frac{99}{100} \times \frac{1}{5}, 5, 5, 6, 7, 8, 8, 8, 8, 8, 8, 9, 9, 10, 11, 11, 12 }{5}$$

$$= \frac{99}{100} \times \frac{1}{5} = \frac{99}{5} = 19 \cdot 8 \quad \text{(Index)}$$

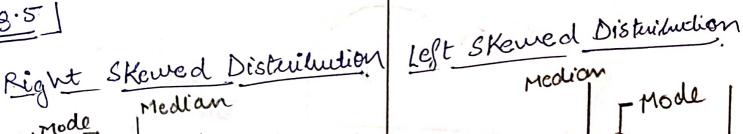
99 Pencentil Value is = 12



eg:- Wealth Distribution over the would

Relationship lefur Mean, Median & Mode: -

Mean > Median > Mode



Mean

eg: - Life span of Human Beigs.

Reladionship: -

Mode > Median > Mean