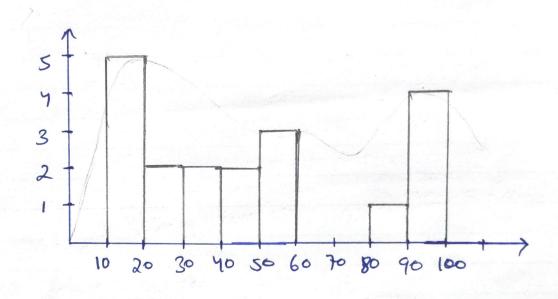
Name-Kartike Raj Courn-Full stack D:A Assignment - 1 email Ib- kartikeraj 25@gnail-com Statistics

Answer 1) { 10,13,18,22,27,32,38,40,45,51,56 57,88,90,92,94,99}

Bins = 10, Bin Size = 100 = 10



Answer 2) Given 6 = 100 Ct = 80% = 0.80 1 = 25 1 = 5201 = 1-80 = 0.20

C.I = Point estimation + Margin of elror

$$Z_{0/2} = Z_{0.2/2} = Z_{0.1}$$

 $Z_{0.1} = 1.28$ with the help of 2 table

Accepted area

Rejected area

-1.28
(494.7)
= 72- 27/2 6

The state of Value feme = 520 - 1.28 × 100 494.4 = 72 + 2 1/2 6 Higher former = 520 + 1.28 X = 100 V25 Valere = 545.6

Any thing > 545.6

Anything < 497.4 Veject Gonfidence inderval

6 between 494.4 to 545.6

Answer 3) Given
$$P_0 = 60\% = 0.6$$

 $q_0 = 1-0.6 = 0.4$
 $n = 250$
 $x = 170$
 $x = 0.1$

$$C.I = -K = 0.90$$

$$\hat{\gamma} = \frac{170}{250} = 0.68$$

$$2 = \hat{P} - P_0 = \frac{0.68 - 0.6}{\sqrt{0.6 \times 0.4}} = 2.66$$

Single tale>
2- Test

Acapted area

Rejected area

1.645

Zo. =+1.645 by wing 2 table

(5) Condusion 1.645> 0.266 .: Null hypothesis Accepted

Answer 4) n=20

Value = $\frac{\text{Percentile}}{100} \times (n+1)$ = $\frac{99}{100} (20+1) = \frac{99}{100} \times 21$ = [20.79] Index So from the data given the 20.79 th index
(8 12
So 99 percentile value is 12

Answer 5)

Right Skewed

Mean Median Mode

Mode low V

Left Skewed

Mode > Median

Mean law &

Mode high 1