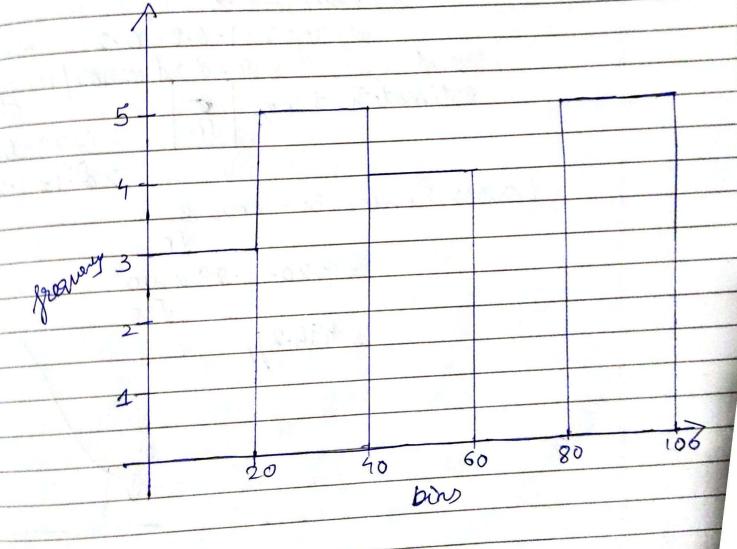
Statistics assignment

Que Il Phota histogram

10, 13,18, 22, 29, 32, 38, 40, 45, 51, 56, 57, 88, 90, 92, 94, 99

dange [0-100] Here nogleins=5 binssize=100=20



Mistogram

Quel Inaquant Test of the CATExam, the population, standard deviation is known to be 100. A Sample of 25 Tests taken hasa mean of 520, Construit an 80% CI about the moan 0=100 n=25 2520 CI=801/ =0.8 d=1-CI=1-0.8=0.2 4/2:01 point > standard error | margin estimater ± Z% 50 intable 28:7=1.99 Lower Fence = 71 - Zayo o = 520- 1.29 x 100 = 494.2//

Tigher Fere = \$1 + 24/2 0 5F = 520 + 1.29 + 100 525 = 545.8/1

classmate A cont mull rypothesis Reject ruly Myrotlesis 494-2 545.8 520 A The second of 93 . 1. 7 0.65 A Commission

Que 3]

A car believes that percentage of citizens in city
ABC that owns a rehicle is 60.1. or less. A
sates manager disagrees with this. He concluded
a hypothesis testing surveying 250 residents
found that 170 residents responded yes to
owning a vehicle

- a) State the null falternate hypothesis b) at a 10% significance level, is there enough evidence to support the idea that vehicle owner in ABC city is 60% or Ces
- → Null flypolhesis NO: 190 € 60./.
 alternate flypothesishi: 50%

$$0.6 \qquad \chi = 10.1 = 0.1 \qquad (.T = 90.1)$$

$$0.6 \qquad \chi = 170, n = 250$$

$$-1.65 \qquad 1.65 \qquad P_0 = 0.6$$

$$90 = 1.0.6 = 0.4$$

Here z-test = P-Po

Porgo

n

$$= 0.68 - 0.6 = 0.08$$

$$\int_{0.6 \times 0.4}^{0.6 \times 0.4} \int_{0.0009}^{0.009}$$

= 2.67

2.67>1.65 Sowereject null hypothesis

For p-value

1-0.99621+0-99821

Pralue = 0.00379/

-2.69

2-67

Sowesejert null hypothesis

Date Page
4.
7,8,9,9,10,1
12 =
tile x (n+D)
× 21
79 index

Value = 12

Quey What is the value of the 99 percenti 2,2,3,4,5,5,5,6,7,8,8,8,8 Sample size n=20 Mere n +1=20+1= For 99 persetile Value-Perces



S. American St.			
Quee5]	Anjort Con Minus		
	In left I right-skewed data, between mean, me diar	, what is the relations	
er gall territorium er saktheres de saktisten de	mean, me doar	I mode:	
and the second designation of the second des	Draw the graph to represent the	Samo	
	mode		
Marie Control	median	Mean	
		mode	
	mar		
	lest skewed	Right skewed	
	An last skey red		
	In left skewed Mean > median > mo	de	
	In left skewed mean comedian comede		
	In Right Skewed Meanis Kighest, modelowest		
	Mean	is Nighest; modeloues	
	In left skewed		
	In legi mod	eis Highest, means lowest	