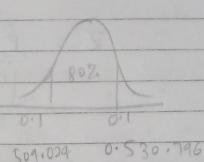


of 2. In a fuant test of CAT Exam the population SD is known to be 100, A sample of 25 test tedeers has mean 520, construct 80% CI about mean.

$$7 = 520$$
 $5 = 100$ 
 $CI = 80\%$ 
 $CI = 80\%$ 
 $CI = 80\%$ 



CI = point Estémate ± Margin Error

= 7 ± 2 × 12 5

= \$ \$20 ± 20.2/2 100

= \$20 ± 70.1 x 20

2 520 ± 0.5398 x20

520+ 10.796 = 530.796 = 509.024

: confidence Interval values orse (30.796 (Later Jenu) 4 509.029 (LF)

1	PAGE No.				
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Q3. A car believes that the percentage of citizens in a city ABC that owns a vehicle is 60% or less. A sales manager disagrees of the conducted a hypothesis testing surveying 250 residents & found that 170 residents responded yes.

DAta 10% Significance level is there enough evidence to support the idea that Vehicle owner in ABC city is 60% or less.

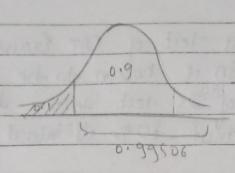
Ho = 60% of owener owns the vehicle in city ABC i.e. 4 < 60%.

the vehicle in city ABC. 4>60%

n = 250  $P_0 = 0.6$  q = 0.091

 $\frac{1}{10} = \frac{10}{20} = 0.68$ 

90 = 1-P0 = 1-0.6 = 0.34



$$= 0.68 - 0.66$$

$$= \frac{0.68 - 0.6}{0.6 \times 0.4}$$

$$= 250$$

$$\frac{0.08}{0.00096} = 0.08$$

= 2.581 for 2 value 2:581 the corresponding Value is 0.99806

· P value = 1-0.99506 = 0.00494

as 0.00494 < 0.10 : Null hypothesis is rejected.

Q4. Value of 99 percentile?

a={2,2,3,4,5,5,5,6,7,8,8,8,8,8,9,9,10,

 $99\% = \frac{99}{100} \times (20+1)$ 

= 99  $\times 21 = 20.79$ 

: 99% is at modex position 20.79 i.e.

: 99% = 12.

Q.5.	In left of right skewed data, what					
4	is relationship between mean.					
	median & mode? Draw the					
11133	graph representing the same.					
1						
->	For right skewed date or positively					
	For right skewed date or positively Skewed Dates the graph is given					
	as.					
3,000	median					
	mean					
	SAG AT / AT / STAN LAMP BOOK					
9	A many more profession and a					
1,095	In a right skewed Data.					
	Mean > Median > Mode.					
6/ 09	SIE LENGTH OF SIGNATURE SHE					
	For left Skewed dater					
	2000					
	1 0 0 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1					
	For -ve Skewed data					
	The skewed duter					
	Mode > Median > Mean					
	Tean Tean					