Shahzab Khan Stems I sum of melents part "a" 69 students part b) o (Nil) observations part "c") smallest = 1, largest = 145 part "3" 30,30,32,39 part e" 23 students parts of median = (DE) The =) (middle) = 35th value = 78

19koH3 (2)							
Q-21	A	В	H3	B ²	=> direct	t colula	tor values
1	12	47	144	2209	can can	also be	used.
2	15	12	255	144	411		
3	9	76	21.	5776	14.7		
14	73	42	B378	2304			
5-	7	4	49	16			4
6	19	51	361	2601		- 2	NE
A	99	37	39601	1369	5 700		
8	36	148	1296	2304			
9	84	13	7056	169	6 Trage		3.0
10	29	0.	148	0			
11: 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2							
£A = 483 = A (mean) = 4A/n = 483/10=48.3							
SB = 336 = B (mean) = 2B/n = 336/10=33.6							
$5A^2 = 54983$ $5B^2 = 16892$							3-1
5R=16817							
N = 40							
$\sigma_{A} = \frac{3A^{2} - (A)^{2}}{3B^{2} - (A)^{2}}$							JE 20
$=$ \sqrt{h}							
= 54983-148-312							
V 20 REMEMBER PROPERTY OF THE							
= 56.26198 = 16892-(33.619							
	0 4					10	y and the second
=) CN of A = JA = 23.66939							
A(mean) = £ 56.26198 = C.V of B = TB H8.3 B Mean),							
= £ 56.26198 =) C.V of B= TB							
H8.3 1= B(mean)							

= 1.16484

= 23.66939/33.6

19K-0273 C.V of A (in percentage) = 1.16484 x100 = 116.484% C.V of B (in percentage) = 0.40445 x 100 part a" Batsman A" is better running, since the mean of Batsman B" scores B" (i.e. A=48.3 > B=35.6) part b "there is more variation in scores of Botsman A, hence Botsman "B" is more consistent in scores; (i.e. C.V of A=116.48% > C.V of B=90.45%). part c') Not learned & included in mid-I topies.

B. C. C. - 3 - C.



P50 = median =

"i) M=12, $Z_1=46$, $N_2=8$, $Z_2=71$, Z=7 $N_1 \times Z_1=22$, $N_2 \times Z_2=22$

= 12 = (12) (46) + (8) (71) = 56

(Given relation) " V(x)=30, V(y)=?, y=22+3

V(y)=V(2x+31

= V(y) = V(2x) +V(3)

= V(y) = 22V(x) +0

=1 1/(4)=14(30)

= V(y)=120

iv) 52=9, &=15, CV=P

= CN (in percentage) = 0.2×100=20%

1) == 10.82, C.V=75%, ==P

: C.V = = = = = 10.82 C.V 75%

[· V (ax+b) = V(ax)+V(b)

: V(ax) = aV(x), V(b)=0