|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CI | GROUP A (f1) | X1 | Fx1 | (x -mean)21 | f(x -mean)21 | GROUP B(f2) | X2 | Fx2 | (x -mean)22 | f(x -mean)22 |
| 1 - 5 | 0 | 3 | 0 | 219.04 | 0 | 2 | 3 | 6 | 292.41 | 584.82 |
| 6 -10 | 7 | 8 | 56 | 96.04 | 672.28 | 4 | 8 | 32 | 146.41 | 585.64 |
| 11 -15 | 10 | 13 | 130 | 23.04 | 230.4 | 7 | 13 | 91 | 50.41 | 352.87 |
| 16 -20 | 2 | 18 | 36 | 0.04 | 0.08 | 20 | 18 | 360 | 4.41 | 88.20 |
| 21 -25 | 1 | 23 | 23 | 27.04 | 27.04 | 16 | 23 | 368 | 8.41 | 134.56 |
| 26 –30 | 5 | 28 | 140 | 104.04 | 520.2 | 10 | 28 | 280 | 62.41 | 624.10 |
| 31-35 | 4∑f1= 29 | 33 | 132∑fx= 517 | 231.04 | 924.16∑ f(x -mean)21= 2374.16 | 4∑f2= 63 | 33 | 132∑fx= 1269 | 166.41 | 665,64∑ f(x -mean)22 =3035.83 |

FOR GROUP A

Mean1= $\frac{∑fx}{∑f}$= 17.8

Variance = $\frac{∑ f(x -mean)2}{∑f1}$= 81.9

Standard variation (S.D) = $\sqrt{variance}$ = $\sqrt{81.9}$ = 9.05

Coefficient of variation= $\frac{S.D}{mean}$ x 100%= 50.8%

FOR GROUP B

Mean2= $\frac{∑fx}{∑f}$= 20.1

Variance = $\frac{∑ f(x -mean)2}{∑f2}$= 48.2

Standard variation (S.D) = $\sqrt{variance}$ = $\sqrt{48.2}$ = 6.94

Coefficient of variation= $\frac{S.D}{mean}$ x 100%= 34.5%

***The group with lesser variable distribution is group B***

***Name: Ofodi Christabel.***

***Matric number: 19/sci01/070***