Solution:

Computation of Rank correlation coefficient

Let RI+ Rank by 2 Judge, R2 + Rank by II Judge.

Ri 1	R2	D=R1-R2	D2
1.	6	1-6=-5	25
6	4	6-4= 2	3 4 -
5	9	5-9 = -4	16
10	8	10-8 = 2	4
3	ı	3-1 = 2	4
2	2	2-2 = 0	0
4	3	4-3 = 1	1
9	10	9-10= +	1
7	5	7-5 = 2	4
8	7	8-7 = 1	1
	A.		Σ D2 =

Rank conselation coefficient of two judes is given by $P = 1 - 6\Sigma D^2 = 1 - 6\times 60$ $P = 1 - 6\Sigma D^2 = 1 - 6\times 60$ P = 0.636 P = 0.636 P = 0.64 AnsThe answer suggest that there is some degree of association between the ranking given by two judges.

Over: Ranking of 10 trainees at the beginning and at the

Trainees: A B C D E F G H I J Rank at: 1 6 3 9 5 2 7 10 8 4

Pank atend: 6 8 3 7 2 1 5 9 4 10

calculate (shearman's rank correlation coefficient.

Over: If the Gum of the sank differences of 9 pairs
of values is 80, find the rank Correlation
coefficient between them.

Solution: Here, we have $\Sigma D^2 = 80$ and m = 9 $P = 1 - \frac{6 \times D^2}{m(m^2 + 1)}$ $= 1 - \frac{6 \times 80}{9(9^2 + 1)} = 1 - \frac{480}{3} = 1 - \frac{2}{3} = \frac{1}{3}$ $= 0.33 + \frac{1}{3}$

Ques: In a bivariate data of n pairs of appropriately. The eum of Square of differences between the ranks of approved Values of two variables is 231 and the rank correlation Coefficient is -0.4. Find Value of n.

Solution: Here, we have $\Sigma D^2 = 231$ and P = -0.4

Over: The coefficient of rank Correlation between loan price and Stare brices of a company is found to be 0.143. If the sum of squares of differences in ranks is 48, And the value of n.