

STATISTICAL TECHNIQUES

1. Calculate the coefficient of correlation from the following data

X	65	66	67	67	68	69	70	72
Y	67	68	65	68	72	72	69	71

2. Find the Karl Pearsons coefficient of correlation between X and Y from the following

X	51	54	56	59	65	60	70
Y	38	44	33	36	33	23	13

3. Compute the coefficient of correlation between X and Y from the values given below

X	30	33	25	10	33	75	40	85	90	95
Y	68	65	80	85	70	30	55	18	15	10

4. Soil temperature X and Germination interval Y for winter wheat in 12 phases are as follows.

X(in F)	57	42	38	42	45	42	44	40	46	44	43	40
Y(days)	10	26	41	29	27	27	19	18	19	31	29	33

Calculate the coefficient of correlation between X and Y.

5. Compute Spearmans rank correlation coefficient from the following data.

X	18	20	34	52	12
Y	39	23	35	18	46

6. Calculate rank correlation coefficient from the following data, relating to the rank of 10 subjects in English and Mathematics

No	1	2	3	4	5	6	7	8	9	10
Rank in English	1	3	7	5	4	6	2	10	9	8
Rank in Maths	3	1	4	5	6	9	7	8	10	2

7. Calculate the rank correlation coefficient from the following data

X	10	12	18	18	15	40
Y	12	18	25	25	50	25

8. The following data gave the growth of employment in lakhs in organised sector in India between 1988 and 1995

Year	1988	89	90	91	92	93	94	95
Public Sector	98	101	104	107	113	120	125	128
Private Sector	65	65	67	68	68	69	68	68

9. Find the coefficient of correlation between height of father and height of son from the following data.

Height of father	65	66	67	67	68	69	7	73
Height of son	67	68	64	68	72	70	69	70