Types of seed	1	2	3	4	5
A	530	524	533	536	527
B	526	529	524	531	535
C	538	528	535	530	533

SECTION:2

QUE.3

(a) What is mean by Non –Parametric tests? Give advantages and limitations of it. (8)

(b) Test independence of two attributes X and Y. (At 2 d.f. and 5% level of significance table value of Chi-Square is 5.99) (9)

Attribute	.....	X	.....	Total
:	48	10	110	168
Y	12	80	100	192
:	60	90	210	360

O.R

(a) Find Rank correlation coefficient for the following data and give your interpretation. (8)

X	28	27	26	35	39	42	39	37	32	22
Y	40	42	38	49	40	50	38	44	45	36

(b) In a survey of 2000 students 900 students failed in examination. 680 students got pass class , 360 students got second class and 60 students were in first class. Result follows proportion 4:3:2:1 ? (At 3 d.f. and 5% level of significance table value of Chi-Square is 7.82) (9)

QUE.4

(a) Explain meaning, scope and assumptions of Interpolation and Extrapolation. (9)

(b) Using Newton's Method estimate for 60-70. (9)

X	20-40	40-60	60-80	80-100	100-120
Y	250	120	100	70	50

O.R

QUE.4

(a) Which are the various methods of Interpolation and Extrapolation? Explain any one method in detail. (9)

(b) Using Lagrange's method estimate the profit for the year 1975. (9)

Year	1971	1972	1974	1979
Profit	21	35	56	84

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