



Federal Board HSSC-I Examination  
Statistics Practical Model Question Paper

Time allowed: 3 hours

Marks: 20

**Note: Attempt all questions. Each question carries equal marks.**

Q.No.1. Calculate (a) Arithmetic mean, Median, variance and standard Deviation. (07)

(b) coefficient of skewness

Classes	Frequency	Classes	Frequency
10 - 14	5	35-39	30
15-19	8	40-44	24
20-24	10	45-49	25
25-29	15	50-54	22
30-34	18	55-59	20

OR

Compute Price index number by using: (07)

- (i) Laspeyres's index taking year 2020 as base      (ii) Paasche's      (iii) Fisher ideal

Commodities	2020		2024	
	Price	Quantity	Price	Quantity
A	12	19	8	10
B	75	90	12	15
C	110	130	10	12
D	30	45	6	9
E	48	62	25	23

Q.No.2 (a) Find the least squares regression lines between pesticides (X) and food Poisoning (Y) for the following data. (07)

(b) Also compute the correlation coefficient ( r ) and interpret the result.

X	17	13	15	16	6	11	14	9	7	12
Y	26	46	35	24	12	18	27	22	2	8

OR

Fit a second degree parabola to the following data and find the trend values . (07)

Also find  $\sum(Y - \hat{Y}) = 0$

Year	2006	2007	2008	2009	2010	2011	2012
y	187	142	133	129	136	169	279

Viva voce marks (03)

Practical Note book marks (03)

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