Unique Science Academy, 60 – D Nawab Town, Lahore

Statistics 11 Monthly Test

(Chapter 5 – Index Number)

14 September 2024   Allowed Time: 40 minutes

Total Marks: 25

Attempt any Question from (Section 1).

Question Number 3 is compulsory.

(Section 1)

Question Number 1. Compute index numbers of prices from the following data taking 1981 as base year and using median as an average. **(10)**

Year	Prices		
	A	**B**	**C**
1981	18	85	52
1982	22	76	60
1983	28	80	66
1984	31	95	80

Question Number 2. Construct chain indices for the following years, taking 1940 as a base year. **(10)**

Items	Years				
	1940	**1941**	**1942**	**1943**	**1944**
Wheat	2.8	3.4	3.6	4	4.2
Rice	2.95	3.6	2.9	2.75	2.75
Maize	3.1	3.5	3.4	4.5	3.7

(Section 2)

Question Number 3. Compute Fisher's index number for the following data. **(15)**

Commodities	Base Year		Current Year	
	Price	**Quantity**	**Price**	**Quantity**
A	7	70	5	49
B	5	27	7	28
C	10	35	9	29
D	9	50	4	42
E	3	16	10	25