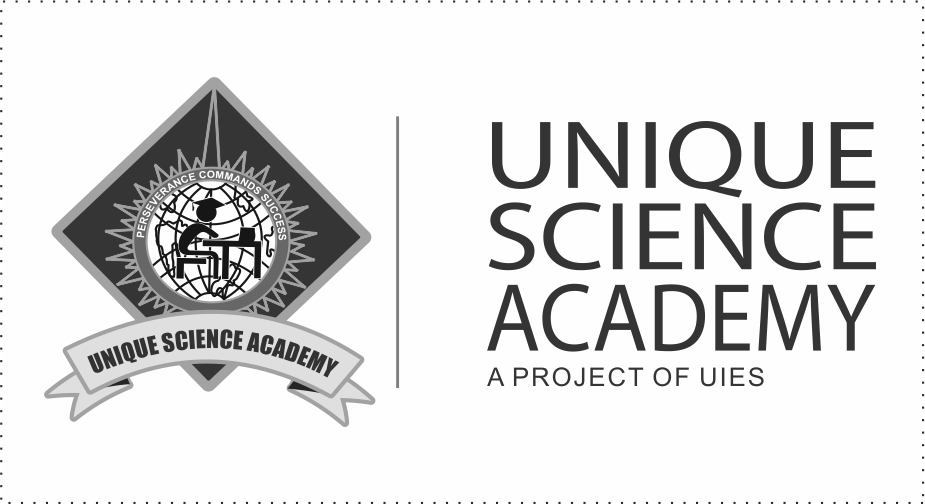
**Unique Science Academy, 60 – D Nawab Town, Lahore**

**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 |