

Appendix 23

The Computation of Distribution Frequency

1. The Distribution Frequency of Pre-Test 3 (XI Class 4)

a. The extent of the data

The highest score = 70

The Lowest score = 35

Formula $R = \text{Highest score} - \text{lowest score}$

$$= 70 - 35$$

$$= 35$$

b. The total number of class interval

Formula : $K = 1 + (3.3 \text{ Log } n)$

$$= 1 + (3.3 \text{ Log } 35)$$

$$= 1 + (3.3 \times 1.54)$$

$$= 1 + 5.1$$

$$= 6.1 / 6$$

c. The length of class interval

Formula : $P = \frac{R}{K}$

$$P = \frac{35}{6}$$

$$P = 5,8 / 6$$

2. The Distribution Frequency of Post-Test 3 (XI Class 4)

a. The extent of the data

The highest score = 85

The Lowest score = 35

Formula $R = \text{Highest score} - \text{lowest score}$

$$= 85 - 35$$

$$= 50$$

b. The total number of class interval

Formula : $K = 1 + (3.3 \text{ Log } n)$

$$= 1 + (3.3 \text{ Log } 50)$$

$$= 1 + (3.3 \times 1.7)$$

$$= 1 + 5.6$$

$$= 6.6 / 7$$

c. The length of class interval

Formula : $P = \frac{R}{K}$

$$P = \frac{50}{7}$$

$$P = 7.1 / 7$$