

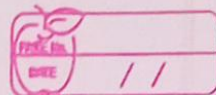
## Assignment 2

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Branch : TE CMR A

Subj : QA



Q1



Rice	52.7	53.8	42.3	53.2	54	58
Wheat	82.7	89.3	74.1	89.7	90	97.5
Coarse grain	114.4	119.7	101.1	118.2	120.5	128.5
Pulch	126.4	131.9	109.1	129.9	132	141.5

Teacher's Signature:.....

Q2] (1) Mean

$$= \frac{9 \times 5 + 15 \times 13 + 25 \times 8 + 35 \times 15 + 45 \times 10}{55}$$

$$= 25.72$$

(2) median

$$N = 55$$

$$\therefore N/2 = 27.5$$

$$\therefore \text{median class} = 20-30$$

$$w = 10$$

$$\text{median} = 26 + \left[ \frac{27.5 - 22}{8} \right] \times 10$$

$$= 22.875$$

(3) mode

$$\therefore \text{mode class} \Rightarrow 30-40$$

$$\text{mode} = 30 + \left[ \frac{15-8}{[15-8] + [15-10]} \right] \times 10$$

$$= 35.83$$





$$Q3] \quad i_x = \frac{48 - 20}{1 + 3.22 \log_{10} 16}$$

$$= \frac{28}{4.88}$$

$$= 5.74 //$$

$$\approx 6$$

$$i_y = \frac{47 - 20}{1 + 3.22 \log_{10} 16}$$

$$= \frac{27}{4.88}$$

$$= 5.53 //$$

$$\approx 6$$

$\begin{array}{l} x \\ y \end{array}$	20-26	26-32	32-38	38-44	44-48	Total
20-26		11	1	1	1	
26-32			11	1		
32-38	1	1			1	
38-44	1	1			1	
44-47	1		1			
Total =	3	4	4	2	3	

Q5]

Stem	leaves
7	2, 3, 8, 3
8	5, 1, 6, 5
9	3, 9, 0

Q4]

Simple table

A simple table also known as a one-way table, present data in single or along one variable

Example :

Name	Marks
A	60
B	70
C	100

Two-way : It is a type of complex table that displays the frequency distribution of 2 categorical variables simultaneously

Example.

	Tea	Coffee
Female	250	100
Male	300	150

Manifold tabulation : It involves the simultaneous tabulation of 3 or more variables

Example :-

	Town			
	A		B	
	male	Female	male	Female
rickets	20	40	80	80
football	60	70	90	50