

Q2: - ?

PART "A"

⇒ :-

The Purpose of Census is to count the entire Population of a country & individuals at location where they actually live. Census counts the number of living in the home their Age Sex & race. It helps in the forming & important base for planning Policy development & decreasing numbering.

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PART "B"

⇒ :-

In census each & every unit of the Population is studied in the sampling. The census refers to periodic collection of information about the Population from which it is more suitable

P.T.O.

b).... to use census method if the Population
Compare to sample survey. Census survey takes
more time however it is margin for error in
sample survey while census survey is more
correct.



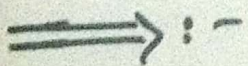
-: PART "E" :-



By using the information of given
table it is true that man needs more foods
to maintain its energy level.



-: PART "C" :-



obviously not having a full response
Rate to the census is problem for the accuracy
of census as insufficient data will be collected
to know about population and of following base

P.T.O

C..... For Planning & Policy development.

★ -:-: -:-★

-:- PART "D" :-:-

⇒:-

Ironical response to the census by the public signify their inward attitude to the survey & their carelessness in following accurate data. ~~Questions~~ Questions of these types are invalidated with such abuse responses.

★ -:-: -:-★

-:- PART F " :-:-

⇒:-

Census, itself mean the study of every object under the observation. And in real it is such a difficult task to perform. Also it is quite difficult to government to go to every single person and collect the whole a lot of things that have been done by these agencies not only to of an error may increase error further.

★ ----- ★

Asif Syjad

Q3.....?

PART "A"

Solution:-

RAIN FALL	X	f	fx	C	x ²	fx ²
19.5 — 24.5	22	1	22	1	484	484
24.5 — 29.5	27	3	81	4	729	2187
29.5 — 34.5	32	5	160	9	1024	5120
34.5 — 39.5	37	8	296	17	1369	10952
39.5 — 44.5	42	5	210	22	1764	8820
44.5 — 49.5	47	2	94	24	2209	4418
49.5 — 54.5	52	0	0	24	2704	0
54.5 — 59.5	57	1	57	25	3249	3249
		25	900			

$$A.M = \frac{\sum fx}{\sum f} = 36.8$$

$$G.M = A \log \left(\frac{\sum f \log x}{\sum f} \right) = 36.055$$

$$H.M = 35.302 = \frac{\sum f}{\sum (f/x)}$$

P.T.O.

A....

$$\text{Median} = L + \frac{h}{f} \left(\frac{n}{2} - c \right) = 34.5 + \frac{5}{17} \left(\frac{25}{2} - 9 \right) = 37.7$$

$$\text{Mode} = L + \frac{f_m - f_0}{2f_m - f_0 - f_1} \times h = 34.5 + \frac{8 - 5}{2 \times 8 - 5 - 5} \times 5 = 39.5$$

$$Q_1 = L + \frac{h}{f} \left(\frac{n}{4} - c \right) = 34.5 + \frac{5}{8} \left(\frac{25}{4} - 5 \right) = 35.28$$

$$Q_3 = L + \frac{h}{f} \left(3 \times \frac{n}{4} - c \right) = 34.5 + \frac{5}{8} \left(3 \times \frac{25}{4} - 5 \right) = 43.09$$

$$P_1 = L + \frac{h}{f} \left(\frac{n}{10} - c \right) = 24.5 + \frac{5}{3} \left(\frac{25}{10} - 1 \right) = 27$$

$$P_1 = L + \frac{h}{f} \left(\frac{n}{100} - c \right) = 19.5 + \frac{5}{1} \left(\frac{25}{100} - 1 \right) = 15.75$$

$$\text{Range} = x_m - x_0 = 57 - 22 = 35$$

$$\text{M.D} = \frac{\sum f/x - \bar{x}}{\sum f} = \frac{54}{5} = 10.8$$

$$\text{Q.D} = Q_3 - Q_1 = 7.81$$

$$\text{Variance} = \frac{\sum f x^2}{\sum f} - \left(\frac{\sum f x}{\sum f} \right)^2 = 57.25$$

P.T.O

A..... Standard Deviation = $\sqrt{\text{variance}} = 75666$.

Coefficient of variation = $\frac{S.D}{x} \times 100 = 0.206$.

Skewness = $3 \frac{(\text{mean} - \text{median})}{\text{standard deviation}} = 3 \times \frac{(368 - 377)}{75666}$

Skewness = -0.3568 .

Negative Skewed

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PART "B"

SOLUTION:-

22, 27, 27, 27, 32, 32, 32, 32, 32, 37, 37,
37, 37, 37, 37, 37, 37, 42, 42, 42, 42, 42,
42, 47, 47, 57.

Mean = $\frac{\sum x}{N} = \frac{900}{25} = 36.8$.

$\text{G.M} = (22 \times 27 \times 27 \times 27 \dots \times 57)^{\frac{1}{25}} = 36.0555$.

P.T.O.

b.....

$$H.M = \frac{N}{\sum(L \frac{1}{2})} = 35.302$$

$$\text{Median} = \text{Size of } \frac{25}{2} \text{th item} = \frac{37+37}{2} = 37$$

$$\text{mode} = \text{most frequent value} = 37$$

$$Q_1 = \text{Size of } \frac{25}{4} \text{th item} = 6 \text{th item} = 32$$

$$Q_3 = \text{Size of } 3 \times \frac{25}{4} \text{th item} = 18 \text{th item} = 42$$

$$D_1 = \text{Size of } \frac{7}{10} \text{th item} = \frac{25}{10} \text{th} = 2.5 \text{th} = 27$$

$$P_1 = \text{Size of } \frac{25}{100} \text{th item} = 1 \text{st item} = 22$$

$$\text{Range} = 57 - 22 = 35$$

$$M.D = \frac{\sum |x - \bar{x}|}{n} = 5.456$$

$$Q.D = Q_3 - Q_1 = 42 - 32 = 10$$

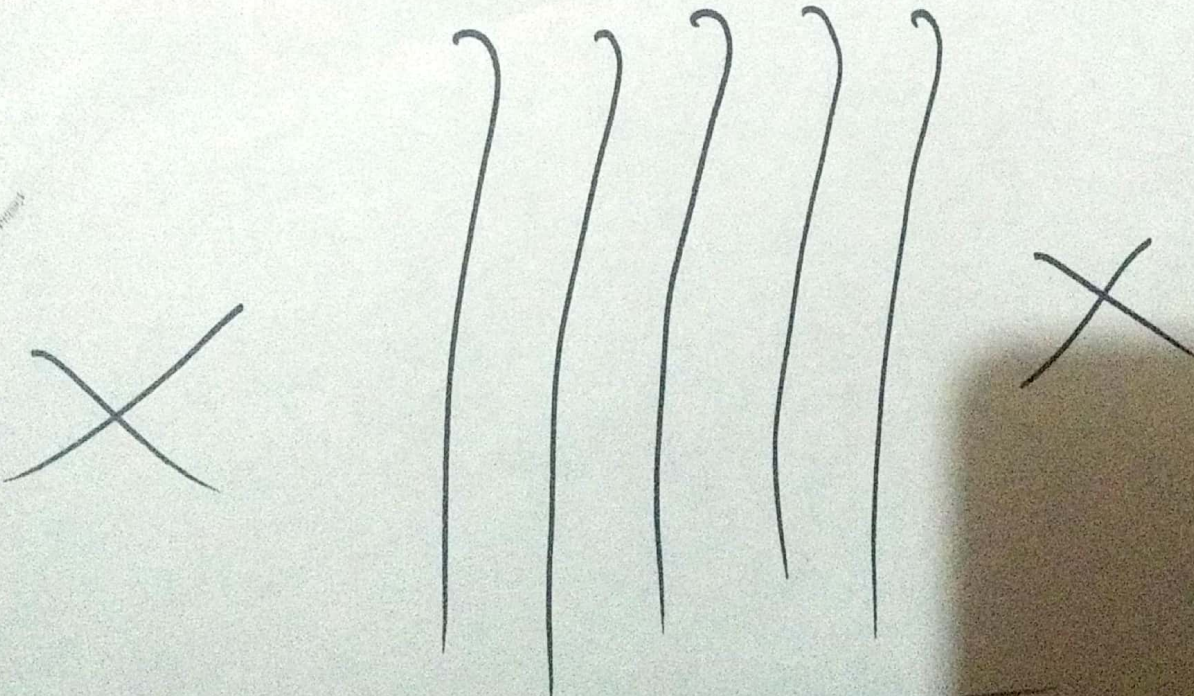
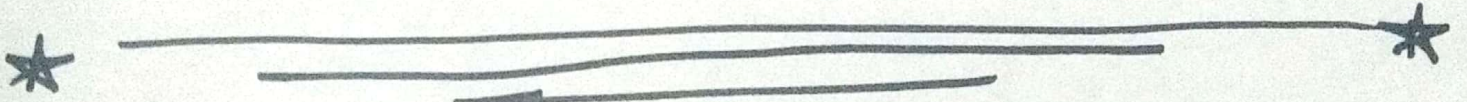
$$\text{Variance} = \sqrt{\frac{\sum x^2}{n} - \left(\frac{\sum x}{n}\right)^2} = 57.25$$

P.T.O

b.....

$$S.D = \sqrt{57.25} = 7.566 \quad C.V = \frac{S}{\bar{x}} \times 100 = 0.206$$

$$\text{Skewness} = 3(\text{mean} - \text{median}) / S.D = 3(36.8 - 37) / 7.566 = -0.08$$



Q1:-

b) :- PART

ANSWER:-

It indicates that uses of Root vegetable, are more than milk which uses of Wheat Flour is much more than milk and root vegetable.

e) :- PART

ANSWER:-

In fresh vegetables Q1 women are more than by men each women use 78 gram while each men uses 62 gram etc.

Q1) - ...

P) PART ... :-

ANSWER: -

In Fruit men standard deviation is less than women so men are better.

In Rice women is better.

In Fish and mean men are better.

C) PART

ANSWER: -

In Fruit and fish the value of mean increasing from Q_4 to Q_1 ~~Q_4 to Q_1~~ in men & women. But in Rice the value of mean

decreasing from Q_4 to Q_3

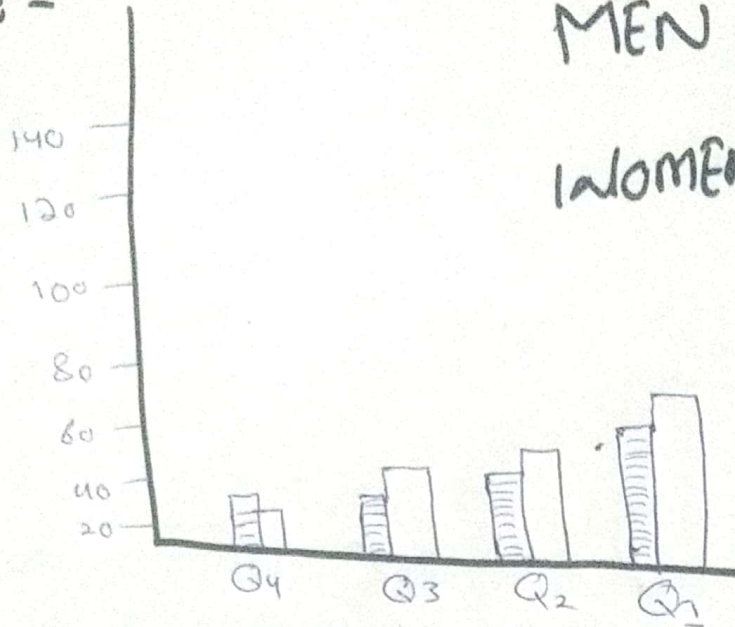
Q21-


d) PART


Diagram For Fruits

Suitable

ANSWER:-




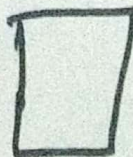
MEN = 

WOMEN = 

For FISH



MEN = 

WOMEN = 

Q1.....

a) PART.....

SOLUTION:-

Equal number in the four groups, so the overall mean is :-

$$\Rightarrow (204 + 259 + 266 + 317) / 4 = 261.5 \text{ for men.}$$

$$\Rightarrow (178 + 235 + 266 + 304) / 4 = 245.75 \text{ for women.}$$

$$\Rightarrow \text{The SDs are } 0.9 \sqrt{1308} = 32.5 \text{ for men } = \xi$$

$$0.8 \times \sqrt{1540} = 31.4 \text{ for women.}$$

\Rightarrow The overall mean is

$$(1308 \times 261.5 + 1540 \times 245.75) / 2848 = 253.0(2)$$