Case 1

The following information of wages of 20 workers in a Industry has been provided by the management. Management is interested to find out the statistical partition values from the data. You as an analyst have to calculate and support the management in decision making process. Find the values From **Question 1-5**.

S.No.	1	2	3	4	5	6	7	8	9	10
Wages (Rs.)	330	320	550	470	220	510	280	170	680	490
S.No.	11	12	13	14	15	16	17	18	19	20
Wages (Rs.)	400	270	440	480	620	240	330	430	380	450

Find the values of Q₁. (Refer Case 1) (i) <mark>290</mark> 280 300 (iv) 270 (ii) (iii) Find the values of Q₃. (Refer Case 1) (i) 487.5 (iii) 497.5 (iv) 485 (ii) 460 Find the values of D₆. (Refer Case 1) (i) 445 (ii) <mark>446</mark> (iii) 400 (iv) 448 Find the values of P₄₅. (Refer Case 1) (i) 387 390 380 (ii) (iii) (iv) 389 Find the values of Median. (Refer Case 1) (i) 410 (ii) <u>415</u> (iii) 417 (iv) 418

Case 2

Govt of India conducted a sample survey and the data of two states with different section of the society was gathered in following table, the distribution of data in two states shown according to their weights in kg. Govt wants to plan welfare schemes on the basis of the following data. Calculate the parameters required in **Question 6-10**

Weight (Kg)	20-30	30-40	40-50	50-60	60-70
State A	7	10	20	18	7
State B	5	9	21	15	6

Calculate the arithmetic mean of State A. (Refer Case 2) (i) 46.29kg (ii) 45.55kg (iii) 47.65kg (iv) 49.75kg

	Calc (i)			tate B. (Refer Case 2) (iii) 46.29 kg (iv)	44.78kg
	Calc (i)			State A. (Refer Case 2) (iii) 12.02 kg (iv)	11.76 kg
	Calc (i)			State B. (Refer Case 2) (iii) 10.93 kg (iv)	12.24 kg
	(i)	State A	s the greater vari (ii) State F (iv) None		Case 2)
1.	The sum of	the square of o	leviations from	the mean is:	

- (i) least (ii) maximum (iii) zero (iv) none of these
- 2. A distribution has mean 8.5, median=8.3 and mode=7.4. the distribution is:
 - (i) **Positively skewed** (ii) negatively skewed
 - (iii) symmetrical (iv) none of these
- 3. From the following information given below

	Factory A	Factory B
Mean daily wages	12	8
No. of workers	80	120

- (i) Factory A pays a larger amount as daily wages
- (ii) Factory B pays a larger amount as daily wages

(iii) Both factories pay an equal amount as daily wages

- (iv) It cannot be determined
- 4. If an observation in a series is zero, then its Geometric Mean will be:
 - (i) indeterminate (ii) negative (iii) zero (iv) cannot be defined
- 5. The median is
 - (i) 4th decile (ii) 50th percentile (iii) 8th decile (iv) 35th Percentile
- 6. If mean=50, S.D= 25 then C.V. is

7.	(i) (ii)	Standar Range		•		(ii) (iv)		by the extrem deviation an		
8.	Whic	h of the f	follow	ing is th	e unit-fre	ee num	iber?			
	(Cooffic	vient o	<mark>f variat</mark> i	ion		(ii)	Standard D	aviation	
	(i)	Coenne		i vuriuu			(11)	Standard D	eviation	
	(1) (iii)	Range		r vuriuu			(iv)	Median	eviation	
9.	(iii)								eviation	