By. Er. Dharmendra Sir 7974073108, 9584873492

DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

STATISTICS

SESSION -2024-25

CLASS - 10th

JOIN TODAY FOR ADVANCE CONCEPTS

ONLY IN ₹2000 PER MONTH

MRP: ₹ 100/- ONLY

ALSO, BASIC CONCEPTS CLASSES IN SUMMER VACATION Apr, May & Jun (Every Year)

Add: Block -B, Near Glory Villa, 60 feet Road (Nearest land mark Scindia Statue), Shatabdipuram, Gwalior

Time : 1 hr : Statistics :- mm:

Q. 1 Fill in the blanks :-

(i) 3 median = mode + ...

(ii) In the formula $\bar{x} = a + \frac{\Sigma f_i d_i}{\Sigma f_i}$, a is called .....

(iii) In the formula median $\tilde{x} = l + \left(\frac{\frac{h}{2} - cf}{f}\right) \times h$, l is called .....

(iv) In the formula mode $= l + \left(\frac{f_1 - f_0}{2f_1 - f_0 - f_2}\right) \times h$, h is called .....

(v) In the formula $\bar{x} = a + \left(\frac{\Sigma f_i u_i}{\Sigma f_i}\right) \times h$, u_i is called ..... and equal to .....

Q. 2. Answer in one word / sentence :-

(i) Write the class mark of the class 20-40.

(ii) What is the class of maximum frequency called ?

(iii) What is the score dividing the Entire frequency distribution in two equal parts called ?

(iv) What will be the arithmetic mean of 1, 2, 3, 4, 5 ?

(v) Write the formula of the median.

Q. 3. The distribution below shows the number of wickets taken by bowlers in one day cricket matches. Find the mean number of wickets by choosing a suitable method.

No. of wickets	20-60	60-100	100-150	150-250	250-350	350-450
No. of Bowlers	7	5	16	12	2	3

Q. 4. Find the mean from the following data :

class interval	10-25	25-40	40-55	55-70	70-85	85-100
Number of students	2	3	7	6	6	6

Q.5. Consider the following distribution of daily wages of 50 workers of a factory:

Daily Wages (in ₹)	500-520	520-540	540-560	560-580	580-600
No. of workers	12	14	8	6	10

Find the mean daily wages of the workers of the factory by using an approximated method.

Q.6. The table below shows the daily expenditure on food of 25 households in a locality.

Daily Expenditure in (₹)	100-150	150-200	200-250	250-300	300-350
No. of households	4	5	12	2	2

Find the mean daily expenditure on food by a suitable method.

Q.7. The following data gives the information on the observed life times (in hours) of 225 electrical components.

Life times (Hr)	0-20	20-40	40-60	60-80	80-100	100-120
Frequency	10	35	52	61	38	29

Determine the model life times of the components.

Q.8. A Survey Conduct on 20 households in a locality by a group of students resulted in the following frequency table for the number of family member in a household:

Family Size	1-3	3-5	5-7	7-9	9-11
No. of Families	7	8	2	2	1

Find the mode of this data.

Q.9. The following table gives the literacy rate (in %) of 35 cities. Find the mean literacy rate:

Literacy rate (in %)	45-55	55-65	65-75	75-85	85-95
No. of cities	3	10	11	8	3

Q.10. The following data gives the information on the observed life time (in hours) of 225 electric Components. Determine the model life time of the Component.

Life time (in hours)	0-20	20-40	40-60	60-80	80-100
Frequency.	20	45	57	65	38