

T2- Statistics
Model Question Paper VI
9th Standard

Maths

Reg.No. :

I. Answer all the questions

Time : 01:40:00 Hrs

Total Marks : 45

10 x 1 = 10

Part-A

- 1) The mean of the first 10 natural numbers is
(a) 25 (b) 55 (c) 5.5 (d) 2.5
- 2) The Arithmetic mean of integers from -5 to 5 is
(a) 3 (b) 0 (c) 25 (d) 10
- 3) If the mean of $x, x + 2, x + 4, x + 6, x + 8$ is 20 then x is
(a) 32 (b) 16 (c) 8 (d) 4
- 4) The mode of the data 5, 5, 5, 5, 1, 2, 2, 3, 3, 3, 4, 4, 4, 4 is
(a) 2 (b) 3 (c) 4 (d) 5
- 5) The median of 14, 12, 10, 9, 11 is
(a) 11 (b) 10 (c) 9.5 (d) 10.5
- 6) The median of 2, 7, 4, 8, 9, 1 is
(a) 4 (b) 6 (c) 5.5 (d) 7
- 7) The mean of first 5 whole number is
(a) 2 (b) 2.5 (c) 3 (d) 0
- 8) The Arithmetic mean of 10 number is -7. If 5 is added to every number, then the new Arithmetic mean is
(a) -2 (b) 12 (c) -7 (d) 17
- 9) The Arithmetic mean of all the factors of 24 is
(a) 8.5 (b) 5.67 (c) 7 (d) 7.5
- 10) The mean of 5 numbers is 20. If one number is excluded their mean is 15. Then the excluded number is
(a) 5 (b) 40 (c) 20 (d) 10

Part-B

10 x 2 = 20

- 11) The mean of the 5 numbers is 32. If one of the numbers is excluded, then the mean is reduced by 4. Find the excluded number
- 12) From the following table compute arithmetic mean by the direct method.

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of students	5	10	25	30	20	10

- 13) Find the median for the following distribution

Value	12	34	56
f	13	24	82

- 14) The mean mark of 100 students was found to be 40. Later on, it was found that a score of 53 was misread as 83. Find the correct mean corresponding to the correct score.
- 15) The mean of 12 numbers is 48. If each number is multiplied by 4 what will be the new mean?
- 16) The mean weight of 6 boys in a group is 48 kg. The individual weights of 5 of them are 50kg, 45kg, 50kg, 42 kg and 40kg. Find the weight of the sixth boy.
- 17) Mean of 100 observations is found to be 40. At the time of the computation two items were wrongly taken as 30 and 27 instead of 3 and 72. Find the correct mean.
- 18) A shoe shop in Chennai sold hundred pairs of shoes of a particular brand in a certain day with the following distribution.

Size of shoe	4	5	6	7	8	9	10
No. of pairs sold	25	33	23	39	27	1	

Find the mode of the following distribution.

- 19) A survey was conducted in a small industrial plant having 50 workers to find the number of km each person commuted to work and the details are given below. Represent it by a histogram and frequency polygon.

Commuted Distance (km)	50-59	40-49	30-39	20-29	10-19
No. of Workers	4	5	9	18	14

- 20) கீழ்க்காணும் எண்களின் இடைநிலை அளவு காண்க.
24, 22, 23, 14, 15, 7, 21

Part-C

5 x 3 = 15

- 21) Find the median of the following data.

18, 12, 51, 32, 106, 92, 58

- 22) Calculate the median for the following data

Class Interval	1-5	6-10	11-15	16-20	21-25	26-30	31-35
Frequency	1	18	25	26	7	2	1

- 23) Calculate the mode of the following data.

Size of shoe	4	5	6	7	8	9	10
No. of Pairs sold	15	17	13	21	18	16	11

- 24) For the following data obtain the mode.

Weight (in kg)	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
No of students	5	4	3	18	20	14	8	3

- 25) The following table shows the age distribution of cases of a certain disease reported during a year in a particular city.

Age in year	5-14	15-24	25-34	35-44	45-54	55-64
No. of cases	6	11	12	10	7	4

Obtain the mean, median and mode of the above data.

