1. Find the median of all the prime numbers less than 100?

2. Find the minimum value of x if median is 22.

X_i	7	12	19	22	30	35
f_i	8	13	9	a	7	6

3. A = (x,8,10,25,50) median of list A is 25

Quantity A	Quantity B
x	25

4. A list is comprised of five positive integers: 4, 4, x, 7, y. What is the range of the possible values of the medians?

(A) 2 (B) 3 (C) 6 (D) 7 (E) Cannot be determined

5. The average of five positive integers is less than 20. What is the smallest possible median of this set?

(A) 19 (B) 10 (C) 4 (D) 3 (E) 1

6. List A consist only prime numbers such that their range is even and it has at least 5 distinct prime numbers

Quantity A	Quantity B
Any prime number in the list A	2

7.

Quantity A	Quantity B
Range of first 100 positive multiples of 11	Range of 100 consecutive multiples of 11

8. (I)

Quantity A	Quantity B
SD of 1st 10 prime numbers	SD of 1st 10 odd natural numbers

(II)

Quantity A	Quantity B
SD of (24, 34, 44, 54, 64)	SD of (89, 79, 69, 59, 49)

(III)

Quantity A	Quantity B
SD of (10,20,50,80,90)	SD of (10,30,50,70,90)

9. Four positive integers have a mode of 4 and median of 3. What is their sum?

10. If standard deviation of 10 observations is 0 and one of the observation is 25

Quantity A	Quantity B
Range of 10 observations	0

11. Number of books read by 5500 readers is normally distributed with mean 19 and standard deviation 2.Approximately how many readers have read less than 17 books.

12. In a distribution of 1700 different measurements 'v' is at 73rd percentile. If there are 136 measurements in the distribution that are greater than **'c'** but less than **'v'**, then **'c'** is approximately at what percentile in the distribution?

(A) 45th (B) 50th (C) 55th (D) 60th (E) 65th

13. The greatest of the 41 positive integers in a certain list is 52. The Median of the 41 integers is 21. What is the least possible average of the 41 integers?

(A) 8 (B) 10 (C) 12 (D) 20 (E) 21

14. In a set of 77 consecutive integers, median is 70

Quantity A	Quantity B
Least number in the set	32

15. AIIMS conducted a survey to determine how many apples are eaten by 100,000 people during last year. Number of apples eaten by people is normally distributed with a mean of 29 apples and deviation of 4 apples. Approx. how many of the surveyed people ate more than 25 apples in the last year?
(A) 16000 (B) 68000 (C) 84000 (D) 98000

16. Standard deviation on a test was 12 points and the mean was 70 points. If the scores are normally distributed and student X scored 95 points then student X scored higher than approx. what % of the students?
(A) 84% (B) 98% (C) 68% (D) 50%

17. M = {n, n+1, n+2, n+3, n+4} where n is greater than 2

Quantity A	Quantity B
Standard deviation of the numbers in set M	n

18. Sets S and T satisfy the conditions that all the numbers in set S are in set T and the average of numbers in set S is equal to the average of numbers in set T.

Quantity A	Quantity B
Standard Deviation of set S	Standard Deviation of set T

19. The algebraic sum of the deviations of 10 observations measured from 30 is 50.Find the average of the observations?
(A) 30 (B)35 (C)25 (D) Cannot be determined

20. A box contains 30 numbered cards from 1 to 30. 3 cards are drawn at random then find the probability that their median is 10?

21. A box contains 40 numbered cards from 1 to 40. 4 cards are drawn at random then find the probability that their range is 37?

22. Find the interquartile range for the following observations:
(i) 5,7,12,13,25,29,36,38,45,88
(ii) 2,8,9,11,16,19,19,22,35,47,59,69

23. In a normally distributed set of data, the mean is 12 and the standard deviation is less than 3

Quantity A	Quantity B
Number of data points in the set located between 9 & 15	68% of the total data points

24. Mean and variance of 2 series are given below:
Series A: Mean = 54 and variance = 9 Series B: Mean = 100 and variance = 4 Which series is more stable?
(A)Series A (B) Series B (C)Both are equally stable (D) cannot be determined

25. Average score of 10 students was 5.4 for a particular test. 7 of these students scored 8,7,5,5,2,1,3. What are the possible values of the mode of the marks of all 10 students? (Mark all the correct answer)
(A) 4 (B)6 (C) 5 (D) 7 (E) 8

Statistics

1. 41	2. 18	3. D	4. E	5. E
6. A	7. C	8. A,C,A	9. 11	10. C
11. 880	12. E	13. C	14. C	15. C
16. B	17. B	18. D	19. B	20. $\frac{9}{203}$
21. $\frac{189}{9139}$	22. 26,38	23. A	24. B	25. C,D,E