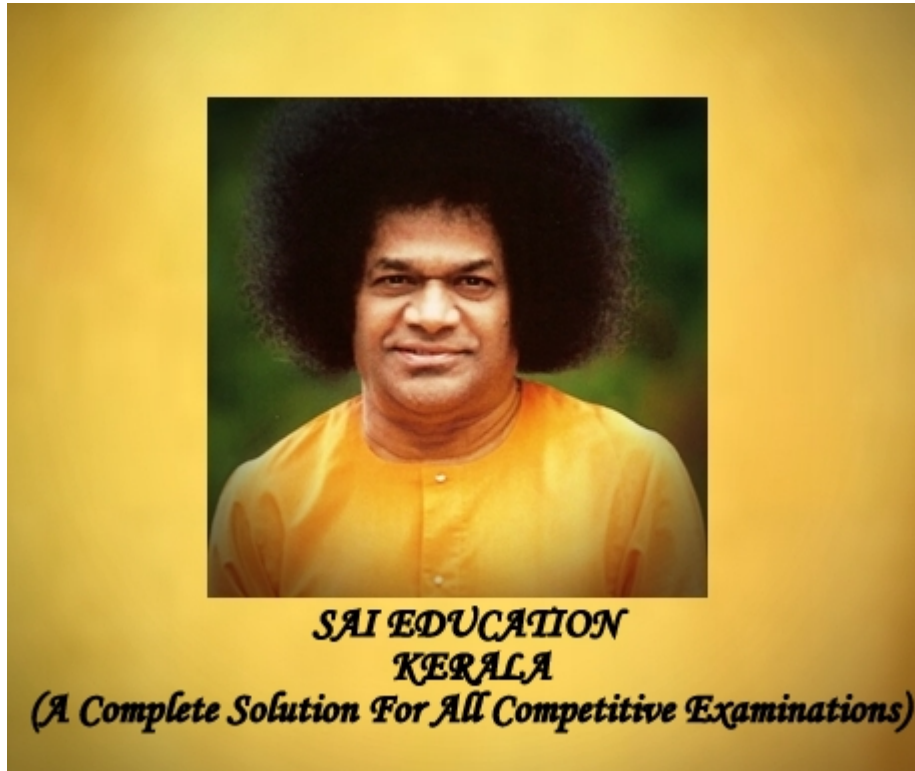# 100 DAYS ONLINE COACHING FOR MISSION 2019 (19-03-19) - DAY 11

SQUARE ROOTS, CUBE ROOTS AND DICES

NAME OF THE CANDIDATE *

M1

WATCH THE ONLINE CLASSES CAREFULLY AND NOTE DOWN IT IN YOUR DIARY BEFORE SENDING THE ANSWERS

https://youtu.be/N-SUz4S7PoQ?list=PLimTwjfXhcvgo5u6WnGOmE8yaH4El9MPV

https://youtu.be/mHRkeLIvchY?list=PLimTwjfXhcvgo5u6WnGOmE8yaH4El9MPV

https://youtu.be/KPG6Th38osg?list=PLimTwjfXhcvgo5u6WnGOmE8yaH4El9MPV

1. Find the least number by which 750 should be multiplied, so that it becomes a perfect cube.

- ○ 12
- ○ 24
- ◉ 36
- ○ 48

2. Which is the smallest number, with which 600 should be multiplied so that it becomes a perfect square?

- ○ 2
- ○ 3
- ○ 3.5
- ◉ 6

3. In a class each of the students contributed as many paisa as there are number of students. If the total collection was Rs. 169, what was the number of students in the class?

- ○ 12
- ◉ 13
- ○ 20
- ○ 30

4. A person wants to arrange his colleagues in the form of a perfect square, but he finds there are 9 persons too many. What will be the total number of persons in front row, if the total number of persons with him is 2410?

- ○ 41
- ○ 47
- ○ 48
- ◉ 49

5. If $3\sqrt{5}+\sqrt{125}=17.88$, then what will be the value of $\sqrt{80}+16\sqrt{5}$?

- ○ 21.66
- ○ 22.35
- ○ 13.41
- ◉ 44.7

6. A group of students decided to collect as many paise from each member of group as is the number of members. If the total collection amounts to Rs. 98.01, the number of the member is the group is

- ◉ 99
- ○ 98
- ○ 88
- ○ 101

7. What is the smallest number by which 3600 be divided to make it a perfect cube?

○ 110

○ 210

◉ 450

○ 420

8. A man plants 49284 apple trees in his garden and arranges them so that there are as many rows as there are apples trees in each row. The number of rows is?

○ 182

○ 202

◉ 222

○ 122

9. The least number by which 294 must be multiplied to make it a perfect square, is:

○ 3

◉ 6

○ 5

○ 24

10. What is the least number which should be subtracted from 0.000326 to make it a perfect square?

- ○ 0.0000016
- ◉ 0.000002
- ○ 0.0002
- ○ 0.002

11. The greatest four-digit perfect square number is:

- ○ 9000
- ◉ 9801
- ○ 9900
- ○ 9981

12. The smallest number added to 680621 to make the sum a perfect square is:

- ○ 5
- ◉ 4
- ○ 7
- ○ 9

13. Prashant had some pebbles in his treasure. His friend said, that he could arrange all the 17424 pebbles in a two dimensional square matrix. How many rows did he make?

- ○ 132
- ○ 141.2
- ◉ 138
- ○ 145.8

14. During a mass drill exercise, 6250 students of differentschools are arranged in rows such that the number ofstudents in each row is equal to the number of rows. Indoing so, the instructor finds out that 9 children are leftout. Find the number of children in each row of the square.

○ 78

◉ 79

○ 62

○ 61

15. Find the least number that must be added to 1500 so as to get a perfect square

○ 11

○ 29

◉ 21

○ 31

16. What is the least number that should be subtracted from 0.4499 to make it a perfect square?

○ 0.04

◉ 0.001

○ 0.01

○ 0.004

17. A certain number of people agree to subscribe as many rupees each as a there are subscribers. The whole subscription is 2582449 rupees. Find the number of subscribers.

- ⦿ 1607

- ◯ 1802

- ◯ 2056

- ◯ 2287

18. If $\sqrt{y}/169 = 54/39$, then y is equal to ?

- ◯ 448

- ⦿ 324

- ◯ 267

- ◯ 527

19. Given that $\sqrt{4096} = 64$, the value of $\sqrt{4096} + \sqrt{40.96} + \sqrt{.004096}$ is ?

- ⦿ 70.464

- ◯ 52.925

- ◯ 73.672

- ◯ 67.251

20. If square root of 24= 4.899, then find the value of root (8/3).

- ⦿ 1.633

- ◯ 3.755

- ◯ 2.544

- ◯ 4.199

21. What is the smallest number by which 3087 may be multiplied so that the product is a perfect cube?

- ⦿ 3
- ◯ 5
- ◯ 7
- ◯ 9

22. √(0.04 x 0.4 x a) = 0.4 x 0.04 x √b, then the value of a/b is ?

- ⦿ 0.016
- ◯ 0.16
- ◯ 16
- ◯ 1.6

23. By what least number must 21600 be multiplied to make it a perfect cube ?

- ◯ 8
- ⦿ 10
- ◯ 12
- ◯ 14

24. Evaluate √0.8 correct up to two places of decimal.

- ◯ 0.67
- ⦿ 0.89
- ◯ 0.92
- ◯ none of the above

25. 2025 plants are to be planted in a garden in such a way that each row contains as many plants as the number of rows. Find the number of rows and the number of plants in each row.

- ○ 35 row & 35 Plants in each row

- ○ 25 row & 25 Plants in each row

- ● 45 row & 45 Plants in each row

- ○ 55 row & 55 Plants in each row

Thank You ◣