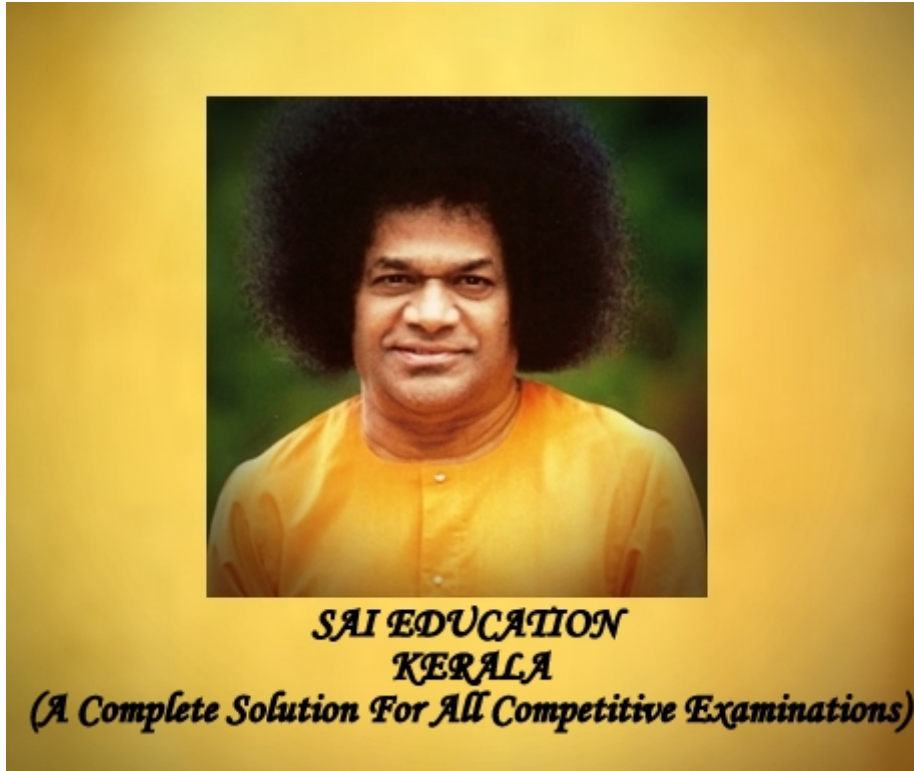


ONLINE COACHING DAY 62-(30-5-2019)

Number systems



Name of the candidate *

M3

Please watch the videos and answer the following questions

<https://youtu.be/Bh9LGrskH4>

https://youtu.be/-dl9CL5_VMQ

https://youtu.be/tigE_FDGaOI

1. Find remainder of $15 \times 17 \times 19$ when divided by 7.

1 point

- 0
- 1
- 2
- 3

2. Two different numbers when divided by the same divisor, left remainder 11 and 21 respectively, and when their sum was divided by the same divisor, remainder was 4. What is the divisor?

1 point

- 36
- 28
- 14
- 9

3. A number when divided by 5 leaves a remainder 3. What is the remainder when the square of the same number is divided by 5?

1 point

- 9
- 3
- 0
- 4

4. A boy wanted to write the numbers from the smallest number to the greatest number of three digits. How many times he needs to press the keys of the computer to do this job?

1 point

- 2708
- 2889
- 2644
- 2978

5. $(4^61+4^62+4^63+4^64)$ is divisible by

1 point

- 3
- 11
- 13
- 17

6. If $p=3/5$, $q=7/9$, $r=5/7$ then

1 point

- $p < q < r$
- $q < r < p$
- $p < r < q$
- $r < q < p$

7. The number of prime factors of $6^{10} \times 7^{17} \times (55)^{27}$

1 point

- 54
- 64
- 81
- 91

8. Which of the following number is multiple of 11

1 point

- 978626
- 112144
- 447355
- 869756

9. $51+52+53+\dots+100=?$

1 point

- $(51 \times 52)/2$
- $(52 \times 53)/2$
- $(100 \times 50)/2$
- 3775

10. A number when divided by 32 leaves the remainder 29. This number when divided by 8 will leave the remainder

1 point

- 3
- 5
- 7
- 29

11. Which one of the following number is multiple of 8

1 point

- 923972
- 923962
- 923872
- 923862

12. A number lying between 1000 and 2000 is such that on division by 2, 3, 4, 5, 6, 7 and 8 leaves remainders 1, 2, 3, 4, 5, 6 and 7 respectively. The number is :

1 point

- 1876
- 1679
- 1778
- 1654

13. The nearest integer to 58701 which is exactly divisible by 576 is

1 point

- 58068
- 55968
- 58968
- none

14. The number which when multiplied by 17 increases by 640

1 point

- 42
- 36
- 40
- none

15. The square of a number subtracted from its cube gives 100. The number is

1 point

- 25
- 16
- 6
- 5

16. If two-third of three-fourth of a number added to three-fourth of the fourth-fifth of a number is x times the number, the value of x is

1 point

- $11/10$
- $9/10$
- $10/9$
- $11/9$

17. $[(625)^{6.25} * (25)^{2.6}] / [(625)^{6.75} * 5^{1.2}] =$

1 point

- 0.25
- 6.25
- 25
- 625

18. out of $2^{(1/2)}, 3^{(1/3)}, 4^{(1/4)}$ which one is the largest

1 point

- $2^{(1/2)}$
- $3^{(1/3)}$
- $4^{(1/4)}$
- all are equal

$$19. [5+2^{(1/3)}] / [7+4^{(1/3)}] = a+b^{(1/3)}$$

1 point

- a=11 ,b=-6
- a=6,b=11
- a = -11,b=6
- a=-11,b=-6

$$20. \text{The value of } x \text{ in } (125)^x = 3125$$

1 point

- 3/5
- 5/3
- 1/4
- 1/5

$$21. \text{The value of } [(36*36*36+14*14*14)] / [36*36+14*14-36*14]$$

1 point

- 22
- 50
- 5100
- 132

$$22. \text{Which is the largest among the following fraction. } 5/8, 2/3, 7/9, 3/5, 4/7$$

1 point

- 5/8
- 7/9
- 4/7
- 2/3

23. $0.04x = 0.000016$

1 point

- 4
- 0.04
- 0.0004
- none

24. $4^7/16^4 \cdot 16^{(1/2)}$

1 point

- 1/16
- 1/4
- 4
- 1

25. 4598 is 95% of

1 point

- 4800
- 4850
- 4840
- none

Thank you!!! 

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