

108 DAYS ONLINE COACHING DAY(34) -28/08/2020 FRIDAY

SURDS AND INDICES (1-4)



Name of the candidate *

M3

Place of the candidate *

Thiruvananthapuram

WHATS APP NUMBER (JOINED IN SAI EDUCATION ONLINE COACHING PLATFORM) *

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Please watch the following videos and answer the following questions

<https://youtu.be/WZtVfJ6svms>
https://youtu.be/nbh_2E4NQzk
<https://youtu.be/cHPR2FgNEEQ>
<https://youtu.be/upanEVr9WIE>

1. rt of 3 x rt of 7 *

1 point

- rt of 37
- rt of 73
- rt of 21
- rt of 1369

2. $(\text{rt of } 5 + \text{rt of } 3)^2$ *

1 point

- (rt of 5 + rt of 3)
- rt of 15
- rt of 225
- $8 + 2 \text{ rt of } 15$

3. $8 \text{ rt of } 3 - 2 \text{ rt of } 3$ *

1 point

- 6 rt of 3
- rt of 6+3
- rt of 3 +6
- rt of 6

4. $(\text{rt } 7 - \text{rt } 3)^2$ *

1 point

- $\text{rt } 7 - \text{rt } 3$
- $\text{rt}3 - \text{rt } 7$
- $\text{rt}(7 - \text{rt}3)$
- $10 - 2\text{rt } 21$

5. $1/(\text{rt}8 - \text{rt}2)$ *

1 point

- $(\text{rt}8 + \text{rt}2)/6$
- $\text{rt}8 + \text{rt}2 + 6$
- $(\text{rt}8 + \text{rt}2)^6$
- $\text{rt}8 + \text{rt}2$

6. $(rt^5+rt^3)(rt^5-rt^3)$ *

1 point

- 1
- 3
- 2
- 0

7. $(3rt^5)^3$ *

1 point

- 3
- 2
- 5
- 1

8. $rt^{27}+rt^{125}$ *

1 point

- $9rt^3$
- $8rt^3$
- $34rt^3$
- $3rt^3+5rt^5$

9. $rt20 + x = rt180$ *

1 point

- rt20
- rt10
- rt180
- rt80

10. $rt675/rt243$ *

1 point

- 3/2
- 4/3
- 5/3
- 3/4

11. $(rt5+rt3)(rt5-rt3)$ *

1 point

- rt2
- rt3
- 2
- 3

12. $rt^4 = x = rt^3 \cdot 20$ *

1 point

- 3/8
- 9/8
- 8/3
- 8/9

13. $rt^3 = 1.732, rt^2 = 1.414$ then $1/(rt^3 + rt^2)$ *

1 point

- 1.732
- 0
- 1.414
- 0.318

14. $2rt^2 - rt^5 + rt^{12}$ *

1 point

- rt^3
- $2rt^3$
- $3rt^3$
- $4rt^3$

15. (cuberoot of 27)³ *

1 point

- 9
- 3
- 6
- 27

16.cube root of (8*27) *

1 point

- 6
- 8
- 27
- 9

17.sqrt(cuberootof729) *

1 point

- 2
- 3
- 9
- 1

18. $(1024)^{-4/5}$ *

1 point

- 1
- 1024
- 1/256
- 256

19. Evaluate $(0.00032)^{3/5}$ *

1 point

- 125
- 1/125
- 8
- 10

20. Find the value of $(16)^{3/2} + (16)^{-3/2}$ *

1 point

- 4097
- 14
- 64
- 4097/64

21. $(256)^{0.16} \times (256)^{0.09} = ?$

1 point

- A. 4
- B. 16
- C. 64
- D. 256.25

22. The value of $[(10)^{150} \div (10)^{146}]$

1 point

- A. 1000
- B. 10000
- C. 100000
- D. 106

23. $(25)^{7.5} \times (5)^{2.5} \div (125)^{1.5} = 5^? *$

1 point

- A. 8.5
- B. 13
- C. 16
- D. 17.5
- E. None of these

24. $(0.04)^{-1.5} = ?$ *

1 point

- A. 25
- B. 125
- C. 250
- D. 625

25. If a and b are whole numbers such that $ab = 121$, then find the value of $(a - 1)b + 1$ *

1 point

- a. 0
- b. 10
- c. 102
- d. 10^3

Thankyou

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