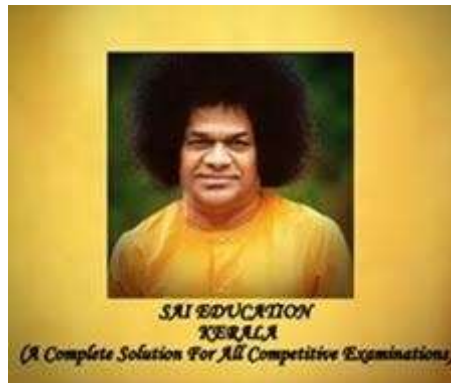


108 DAYS ONLINE COACHING FOR MISSION 2021, DAY[32], 10/02/2021, WEDNESDAY

SURDS AND INDICES



NAME OF THE CANDIDATE *

M2

PLACE OF THE CANDIDATE *

Kannur

WHAT'S APP NUMBER JOINED IN SAI EDUCATION ONLINE COACHING PLATFORM *

555

QUESTIONS

PLEASE WATCH THE ONLINE CLASSES CAREFULLY AND ANSWER THE FOLLOWING QUESTIONS

<https://youtu.be/WZtVfJ6svms>

<https://youtu.be/upanEVr9WIE>

https://youtu.be/nbh_2E4NQzk

<https://youtu.be/cHPR2FgNEEQ>

1. $1/\sqrt{8}-\sqrt{2}=?$ *

1 point

- $\sqrt{8}+\sqrt{2}/6$
- $6/\sqrt{8}+\sqrt{2}$
- $10/\sqrt{8}+\sqrt{2}$
- $\sqrt{8}+\sqrt{2}/10$

2. $1/\sqrt{7}+\sqrt{5}=?$ *

1 point

- $\sqrt{7}-\sqrt{5}/2$
- $2/\sqrt{7}-\sqrt{5}$
- $12/\sqrt{7}+\sqrt{5}$
- $\sqrt{7}+\sqrt{5}/12$

3. $(\sqrt{7}-\sqrt{3})^2=?$ *

1 point

- $4-2\sqrt{21}$
- $4+2\sqrt{21}$
- $10-2\sqrt{21}$
- $10+2\sqrt{21}$

4. $(\sqrt{5}+\sqrt{3})^2 = ?$ *

1 point

- $2+2\sqrt{15}$
- $8+2\sqrt{15}$
- $2-2\sqrt{15}$
- $8-2\sqrt{15}$

5. $8\sqrt{3}-2\sqrt{3} = ?$ *

1 point

- $10\sqrt{3}$
- $16\sqrt{3}$
- $6\sqrt{3}$
- 18

6. $\sqrt{27}+\sqrt{125} = ?$ *

1 point

- $8\sqrt{15}$
- $2\sqrt{15}$
- $5\sqrt{3}+3\sqrt{5}$
- $3\sqrt{3}+5\sqrt{5}$

7. $\sqrt{20} + ? = \sqrt{180}$ *

1 point

- $\sqrt{50}$
- $\sqrt{80}$
- $\sqrt{70}$
- $\sqrt{60}$

8. $\sqrt{675}/\sqrt{243}=?$ *

1 point

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

9. $(\sqrt{5}+\sqrt{3})(\sqrt{5}-\sqrt{3})=?$ *

1 point

- 1
- 2
- 3
- 4

10. $\sqrt{3}=1.732, \sqrt{2}=1.414$. Then $1/\sqrt{3}+\sqrt{2}=?$ *

1 point

- 1
- 0.318
- 1/0.318
- 0.628

11. $2\sqrt{27}-\sqrt{75}+\sqrt{12}=?$ *

1 point

- $3\sqrt{3}$
- $13\sqrt{3}$
- $9\sqrt{3}$
- $1\sqrt{3}$

12. $5\sqrt{64}\times 5\sqrt{512}=?$ *

1 point

- 2
- 4
- 6
- 8

13. $3^4 \times 3^5 = ?$ *

1 point

- 3
- 3^2
- 3^6
- 3^9

14. $(3^{-2}) = ?$

1 point

- $1/3$
- $1/6$
- $1/9$
- $1/12$

15. $8^3 \div 8^2 = ?$ *

1 point

- 2
- 4
- 8
- 16

16. $3\sqrt{8 \times 27} = ?$ *

1 point

- 6
- 8
- 12
- 16

17. $2\sqrt{3\sqrt{729}} = ?$ *

1 point

- 6
- 9
- 3
- 1

18. Simplify $(27^{2/3})$ *

1 point

- 3
- 6
- 9
- 12

19. $(1024)^{-4/5}=?$ *

1 point

- 1/4
- 1/8
- 1/256
- 1/412

20. $(8/125)^{-4/3}=?$ *

1 point

- 625/16
- 16/625
- 2/5
- 5/2

21. Evaluate $(0.00032)^{3/5}=?$ *

1 point

- 1/5
- 2/25
- 1/125
- 2/125

22. $(256)^{0.16} \times (16)^{0.18} = ?$ *

1 point

- 2
- 4
- 8
- 16

23. Find the value of $[5(8^{1/3} + 27^{1/3})^3]^{1/4}$ *

1 point

- 5
- 10
- 15
- 25

24. $(3\sqrt{27})^3 = ?$ *

1 point

- 3
- 9
- 27
- 81

25. $3\sqrt{27} = ?$ *

1 point

3

9

12

21

THANK YOU

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