

108 DAYS ONLINE COACHING- DAY(92), 08/01/2020, WEDNESDAY

SURDS AND INDICES



NAME OF THE CANDIDATE *

M2

PLACE OF THE CANDIDATE *

Kannur

WHATS APPNUMBER(JOINED IN SAI EDUCATION ONLINE COACHING PLATFORM) *

111

QUESTIONS

PLEASE WATCH THE ONLINE CLASSES AND ANSWER THE FOLLOWING QUESTIONS

<https://youtu.be/WZtVfJ6svms>

https://youtu.be/nbh_2E4NQzk

<https://youtu.be/cHPR2FgNEEQ>

<https://youtu.be/upanEVr9WIE>

1. $\sqrt{13} \times \sqrt{13} = ?$ *

1 point

- 11
- 13
- 15
- 17

2. $6\sqrt{7} + 2\sqrt{7} = ? *$

1 point

- $2\sqrt{7}$
- $6\sqrt{7}$
- $8\sqrt{7}$
- $4\sqrt{7}$

3. $(\sqrt{7} + \sqrt{5})^2 = ? *$

1 point

- $10 + 2\sqrt{35}$
- $12 + 2\sqrt{35}$
- $35 + \sqrt{35}$
- $35 - \sqrt{35}$

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

1 point

- $2 - 2\sqrt{15}$
- $4 - 2\sqrt{15}$
- $6 - 2\sqrt{15}$
- $8 - 2\sqrt{15}$

5. $1/\sqrt{11+\sqrt{2}}=? *$

1 point

- $\sqrt{11-\sqrt{2}/9}$
- $\sqrt{11+\sqrt{2}/9}$
- $\sqrt{9+\sqrt{2}/11}$
- $\sqrt{9-\sqrt{2}/11}$

6. $1/\sqrt{7-\sqrt{5}}=? *$

1 point

- $\sqrt{35+\sqrt{5}/2}$
- $\sqrt{35-\sqrt{5}/2}$
- $\sqrt{7+\sqrt{5}/2}$
- $\sqrt{7-\sqrt{5}/2}$

7. Simplify $(\sqrt{7+\sqrt{3}})(\sqrt{7-\sqrt{3}}) *$

1 point

- 1
- 2
- 3
- 4

8.Simplify $(3\sqrt{13})^3$ *

1 point

- 11
- 13
- 15
- 17

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

1 point

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

10. $\sqrt{30}+? = \sqrt{270}$ *

1 point

- $\sqrt{30}$
- $\sqrt{60}$
- $\sqrt{90}$
- $\sqrt{120}$

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

1 point

- $1\sqrt{3}$
- $2\sqrt{3}$
- $3\sqrt{3}$
- $4\sqrt{3}$

$$12. 5\sqrt{49} \times 5\sqrt{343} = ? *$$

1 point

- 3
- 5
- 7
- 9

$$13. 5^4 \div 5^2 = ? *$$

1 point

- 5
- 10
- 15
- 25

14. $6^{-2}=?$ *

1 point

- 1/36
- 1/6
- 1/9
- 1/12

15. $2\sqrt{3\sqrt{615}}=?$ *

1 point

- $3\sqrt{615}$
- $2\sqrt{615}$
- $5\sqrt{615}$
- $6\sqrt{615}$

16. Simplify $(36)^{3/2}$ *

1 point

- 216
- 18
- 36
- 6

17.Simplify $(27/125)^{-4/3}$ *

1 point

- 27/125
- 625/81
- 27/81
- 81/625

18..Evaluate $(0.0081)^{3/4}$ *

1 point

- 27/1000
- 1000/27
- 3/10
- 10/3

19 . Evaluate $(25)^{0.26} + (625)^{0.12}$ *

1 point

- 3
- 5
- 7
- 9

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

1 point

- 2
- 3
- 4
- 5

21. Find the value of. $(25)^{3/2} + (25)^{-3/2}$ *

1 point

- 15626/125
- 16656/125
- 12356/125
- 15625/125

22. Find the value of $9^{3/2} + 9^{-3/2}$ *

1 point

- 730/27
- 27/730
- 729/27
- 727/27

23. $(17)^{3.5} \times (17)^x = (17)^8$, then the value of X is *

1 point

- 4
- 4.8
- 4.5
- 3

24. If $3^{(x-y)}=27$, and $3^{(X+y)}=243$, then the value of X is equal to *

1 point

- 0
- 2
- 4
- 6

25. $(a/b)^{x-1} = (b/a)^{x-3}$, then the value of X is *

1 point

- 2
- 4
- 6
- 8

THANK YOU

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