

# ONLINE COACHING DAY 77 - (20-6-2019)

INDICES AND SURDS



Name of the candidate \*

M3

Place of the candidate \*

THIRUVANANTHAPURAM

Phone no of the candidate \*

0

Please watch the following online classes and answer the questions that follow

<https://youtu.be/cHPR2FgNEEQ>

[https://youtu.be/nbh\\_2E4NQzk](https://youtu.be/nbh_2E4NQzk)

<https://youtu.be/upanEVr9WIE>

<https://youtu.be/WZtVfJ6svms>

1.

What will come in place of question mark in  $\frac{72}{?^{8/5}} = \frac{?^{7/5}}{24}$ ?

\*

1 point

 12 16 6 182. What is value of  $(0.000001)^{1/3}$ ? \*

1 point

 0.000001 0.001 1/100 0.13. What will be value of  $\sqrt[4]{46.7856}$  if,  $(684)^2 = 467856$ ? \*

1 point

 a. 6.84 b. 0.0684 c. 0.684 d. 0.000684

4. If value of  $\sqrt{28}$  is approximately 5.2915, then value of  $\sqrt{7/4}$  is approximately \* 1 point

- a. 1.2000
- b. 0.5687
- c. 1.3228
- d. 1.4652

5. What will be value of  $1/0.0004659$  if,  $1/4.659 = .2146$ ? \* 1 point

- a. 214.6
- b. 2146
- c. 2.146
- d. 21.46

6. What will be value of  $(8.5 \times 5.8 + 8.5 \times 4.2) / (1.7 \times 7.6 - 1.7 \times 6.6)$ ? \* 1 point

- a. 13.56
- b. 5.25
- c. 10
- d. 50

7.  $(256)^{0.16} \times (256)^{0.09} = ?$  \* 1 point

- 4
- 16
- 64
- 256.25

8. If  $3^{x-y} = 27$  and  $3^{x+y} = 243$ , then  $x$  is equal to: \*

1 point

- A. 0
- B. 2
- C. 4
- D. 6

9. The value of  $(\sqrt{8})^{1/3}$  is: \*

1 point

- A. 2
- B. 4
- C.  $\sqrt{2}$
- D. 8

10.  $(0.04)^{-2.5} = ?$

1 point

- 125
- 25
- 3125
- 625

11. If  $x = (8 + 3\sqrt{7})$ , what is the value of  $(\sqrt{x} - 1/\sqrt{x})$ ? \*

1 point

- $\sqrt{12}$
- $\sqrt{14}$
- 2
- 4

12.  $10^{222} \div 10^{220} = ?$  \*

1 point

- 10
- 100
- 1000
- 10000

13. If  $m$  and  $n$  are whole numbers and  $m^n = 196$ , what is the value of  $(m - 3)^{(n+1)}$  ? \*

1 point

- 2744
- 121
- 1331
- 1

14. What is the value of  $(2 \times 4 \times 5)^{5n}$  \*

1 point

- $2^{5n} + 4^{5n} + 5^{5n}$
- $(40^5)^n$
- $(40)^{5^n}$
- $(40n)^5$

15. . If  $(\sqrt{3})^n = 6561$ ,  $(n)^{3/2} = ?$  \*

1 point

- 64
- 16
- $16\sqrt{3}$
- $64\sqrt{3}$

16.  $5^x \times 2^3 = 36$ .  $5^{(x+1)} = ?$  \*

1 point

- 22
- 21
- 20.5
- 22.5

17.  $36^{120} = (36 \times x)^{40}$ . What is the value of x?

1 point

- $4^4$
- $5^4$
- $6^4$
- $7^4$

18.  $(6561)^{1/2} + (6561)^{1/4} + (6561)^{1/8} = ?$  \*

1 point

- 98
- 86
- 93
- 81

19.  $\sqrt{3^n} = 6561$ .  $3^{\sqrt{n}} = ?$  \*

1 point

- 81
- 9
- 16
- 25

20.  $(7^{-1} - 11^{-1}) + (7^{-1} + 11^{-1}) = ?$  \*

1 point

- $2 \cdot 7^{-1}$
- $2 \times 11^{-1}$
- 14
- 22

21.  $36 \times 36 \times 36 \times 36 = 6^?$

1 point

- 10
- 8
- 4
- 6

22. If  $2^x = (1024)^{1/7}$  what is the value of  $x$ ? \*

1 point

- $-7/10$
- $-2$
- $10/7$
- $7/10$

23. If  $a$  and  $b$  are whole numbers such that  $a^b = 121$ , then find the value of  $(a - 1)^{b + 1}$  1 point

- 0
- 10
- 100
- 1000

24.  $(1331)^{-\frac{2}{3}}$  \*

1 point

- 1/11
- 11/121
- 1/121
- 121/11

25.  $(17)^{3.5} \times (17)^{?} = 17^8$  \*

1 point

- 2.29
- 2.75
- 4.25
- 4.5

Thankyou!! 

---

This content is neither created nor endorsed by Google.

Google Forms