

108 Days Online

Coaching~Day(106)-27/01/2020- Monday

LINEAR AND QUADRATIC EQUATION



Name of the candidates \*

M1

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Place of the candidates \*

Thiruvananthapuram

Kollam

Pathanamthitta

Alappuzha

Kottayam

Idukki

Ernakulam

Thrissur

Palakkad

Malappuram

Kozhikode

Wayanad

Kannur

Kasargod

Other: .....

Whats App number (Joined in sai education online coaching platform) \*

0000000000 .....

Questions

Please watch the online classes and answer the following questions

<https://youtu.be/PNOjQvhGhkw>

<https://youtu.be/f-6E6-y3dP4>

<https://youtu.be/btHGqCZb1BY>

<https://youtu.be/QpOAKGDO3gg>

1) Solve  $-6x+5y=2$ ,  $-5x+6y=9$ . Find the values of  $x$  and  $y$ ? \*

1 point

$X=3, Y=3$

$X=4, Y=3$

$X=3, Y=4$

$X=4, Y=4$

2)  $(3x + 4)/5 = (2x - 3)/3$ . Find out the value of  $X$ ? \*

1 point

20

24

28

27

3) Solve  $0.8 - 0.28x = 1.16 - 0.6x$  \*

1 point

9

$9/8$

10

Non of the above

4) Solve the equation  $6(3x + 2) + 5(7x - 6) - 12x = 5(6x - 1) + 6(x - 3)$ ? \*

1 point

- 1
- 2
- 1
- Non of the above

5) solve  $4x - 7(2 - x) = 3x + 2$  \*

1 point

- 4
- 8
- 1
- 2

6) Solve the equation  $4x = 72$ ? \*

1 point

- 30
- 18
- 12
- No solution

7) If  $a, b$  are the two roots of a quadratic equation such that  $a + b = 24$  and  $a - b = 8$ , then the quadratic equation having  $a$  and  $b$  as its roots is ? \*

1 point

- $x^2 + 2x + 8 = 0$
- $x^2 - 4x + 8 = 0$
- $x^2 - 24x + 128 = 0$
- $2x^2 + 8x + 9 = 0$

8) Solve the equation  $20 - 2x = 18$  \*

1 point

- 1
- 5
- 1
- 2

9) In a two digit number the units digit is twice the ten's digit. If 27 is added to the number the digits interchange their place. Find out the number? \*

1 point

- 30
- 40
- 36
- Non of the above

10) Solve:  $37x+41y=70, 41x+37y=86$  \*

1 point

- 3
- 2
- 1
- 1

11) Solve  $2x^2 + 6 = 7x$ . \*

1 point

- $x=2, x=3/2$
- $x=1, x=2/3$
- $x=3, x=1/6$
- $x=2, x=2/3$

12) If  $6x - 5y = 13, 7x + 2y = 23$ , then  $11x + 18y$  is equal to \*

1 point

- 33
- 15
- 15
- 51

13) Solve  $x+y=7$ ,  $3x-2y=11$ . Find the values of  $x$  and  $y$ ? \*

1 point

- 5,2
- 4,3
- 2,5
- 2,-3

14) 37 pen and 57 pencil together cost 320, while 53 pens and 37 pencils together cost is 400. Find out the cost of one pen and that of a pencil? \*

1 point

- 6.50- pen,1.50 pencil
- 5- pen,3-pencil
- 1.50 pen,6.50 pencil
- Non of the above

15) A man has only 20 Pisa coins and 25 Pisa coins in his purse. If he has has all totalling rs 11.25. How many coins of each kind does he have? \*

1 point

- 29
- 25
- 50
- 22

16) I AM three times as old as my son. Five years later, I shall be two and a half times as old as my son. How old am I and my son? \* 1 point

- Father-40 son 10
- Father-45,son- 15
- Father-50 son 20
- Non of the above

17) Eight consecutive numbers are given. If the average of the two numbers that appear in the middle is 6 , then the sum of the eight given numbers is \* 1 point

- 36
- 48
- 54
- 64

18) For what values of k will the following pair of linear equations have in \* 1 point

- 2
- 4
- 6
- 8



19). A father is 30 times older than his son. 18 yr later, he will be only thrice as old as his son. Father's present age(in yr) is \*

1 point

- 25
- 30
- 40
- 45

20) Renu's mother was three times as old as Renu 5 yr ago. After 5 yr, she will be twice as old as Renu. Renu's present age(in yr) is? \*

1 point

- 35
- 10
- 20
- 15

21). If  $7n+9 > 100$  and  $n$  is an integer, then smallest possible value of  $n$  is \*

1 point

- 13
- 12
- 14
- 15

22) For what value of  $k$  will the system of equations  $kx+2y=5$ , and  $3x+y=1$  have a unique solution? \* 1 point

- $k$  not equal to 2
- $k$  not equal to 3
- $k$  not equal to 5
- $k$  not equal to 6

23) Solve  $3x+2y= -25$ ,  $-2x-y=10$ . Find  $x$  and  $y$ ? \* 1 point

- 5,20
- 5,-20
- 5,20
- 5,-20

24) Which of the following equations has real roots? \* 1 point

- $3x^2+4x+5=0$
- $x^2+x+4=0$
- $(x-1)(2x-5)=0$
- $2x^2 - 3x + 4 = 0$

25). If  $2x^2 - 7xy + 3y^2 = 0$ , then the value of  $x:y$  is \*

1 point

- 3:2
- 2:3
- 3:1
- 5:6

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