108 Days Online Coaching Day (106)~09/11/2021, Tuesday

LINEAR AND QUADRATIC EQUATION (1+3)

Email *

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Name of the candidates *

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Place of the candidates *

Kozhikode ▼

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Questions

1)If one of the roots of the quadratic equation $x^2 + mx + 24 = 0$ is 1.5, then what is the value of m? *   1 point

○ 22.5

○ 16

○ -10.5

● -17.5

2)Find the remainder when the polynomial $x4 - 3x2 + 7x - 10$ is divided by (x - 2). *   1 point

● 8

○ -20

○ 18

○ 0

3)If one of the roots of the quadratic equation $2x2 - 7x + q = 0$ is 3, find the other root *   1 point

○ 3

○ 1/4

● 1/2

○ 1/5

4)A railway half ticket costs half the full fare and the reservation charge is the same on half ticket as on full ticket. One reserved first class ticket from Chennai to Trivandrum costs Rs. 216 and one full and one half reserved first class tickets cost Rs. 327. What is the basic first class full fare and what is the reservation charge? *

1 point

○ Rs. 105 and Rs. 6

○ Rs. 216 and Rs. 12

○ Rs. 210 and Rs. 12

⦿ Rs. 210 and Rs. 6

5)If $(x + 2)^2 = 9$ and $(y + 3)^2 = 25$, then the maximum value of x/y is ____. *

1 point

○ 1/2

⦿ 5/8

○ 2/3

○ 2

6)For what value of 'm' will the quadratic equation $x2 + mx + 4 = 0$ have real and equal roots? *

1 point

○ 4

⦿ -4

○ 4 or -4

○ 16

7) Rajesh is 10 years younger to Baskar. 10 years back, Rajesh's age was two-thirds that 1 point of Baskar's. How old is Baskar now? *

○ 30

⦿ 40

○ 20

○ 16

8) An owner of a pizza stand sold small slices of pizza for Rs. 150 each and large slices 1 point for Rs. 250 each. One night he sold 5000 slices, for a total of Rs. 10.50 lakh. How many small slices were sold? *

○ 3000

⦿ 2000

○ 4000

○ 2500

9) Jack has three more cards than Bill. Together they have 47 cards. If x represents the 1 point number of cards Bill has, then an equation that can be used to determine the number of cards each one has is *

○ x + 3 = 47

⦿ 2x + 3 = 47

○ x - 3 = 47

○ 2x - 3 = 47

10) $3x + 4|y| = 33$. How many integer values of (x, y) are possible? *   1 point

- ◉ 6
- ○ 4
- ○ 2
- ○ 1

11) The solution of 2x-3=7 is? *   1 point

- ○ 4
- ○ 6
- ◉ 5
- ○ 9

12) The solution of 2y+9=4 is? *   1 point

- ◉ -5/2
- ○ 8/3
- ○ 4/3
- ○ 3/5

13) 2x+3y=17,3x−2y=6,find the value of x and y? *

1 point

○ X=3 y=2

◉ X=2 y=2

○ X=2 y=9

○ X=2 y=1

14)8x+5y=9,3x+2y=4,find the value of x and y? *

1 point

◉ X= -2 y=5

○ X= -2 y=6

○ X= -2 y=1

○ X= 2 y=5

15) Solve (x+1)(x−3)=0 *

1 point

◉ -1,3

○ 1,-3

○ 1,3

○ 6,-7

Thank you.