108 DAYS ONLINE COACHING DAY(108) -2/07/2020 THURSDAY

LINEAR AND QUADRATIC EQUATIONS

Name of the candidate *

M3

Place of the candidate *

Thiruvananthapuram

WHAT APP NUMBER (JOINED IN SAI EDUCATION ONLINE COACHING PLATFORM) *

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Please watch the following videos and answer the following questions

https://youtu.be/f-6E6-y3dP4
https://youtu.be/btHGqCZb1BY
https://youtu.be/QpOAkGDO3gg
https://youtu.be/PNOjOvhGhkw

1. What is the price of a banana? 1)A man can buy 14 bananas and 35 oranges for Rs 84. 2) 1 point
With 50% discount on the price of bananas,Rs 12 would buy 4 bananas and 5 oranges.
[SBI PO] *

○ a) Statement (1) alone is sufficient to answer the question.

○ b) Statement (2) alone is sufficient to answer the question.

○ c) If either Statement (1) or (2) alone are sufficient to answer the question.

◉ d)If the data even in both Statements (1) and (2) together are not sufficient to answer the question.

○ e) If the data in both Statements (1) and (2) together are necessary to answer the questions.

2. 15 X^2 -11X+2=0 10Y^2-9Y+2=0 *   1 point

○ if x > y

◉ if x ≤ y

○ if x ≥ y

○ if x < y

○ if x = y or relationship between x and y can't be established

3. $10X^2 - 7X + 1 = 0$, $35X^2 - 12Y + 1 = 0$ *   1 point

○ if x > y

○ if x ≤ y

◉ if x ≥ y

○ if x < y

○ if x = y or relationship between x and y can't be established

4. $X^2 - 6X - 7 = 0$, $2Y^2 + 13y + 15 = 0$ *   1 point

◉ if x > y

○ if x ≤ y

○ if x ≥ y

○ if x < y

○ if x = y or relationship between x and y can't be established

5. $8X^2 - 22X + 12 = 0$, $15Y^2 - 19Y + 6 = 0$ *   1 point

◉ if x > y

○ if x ≤ y

○ if x ≥ y

○ if x < y

○ if x = y or relationship between x and y can't be established

6.3X^2+17X+10=0 , 10Y^2+9Y+2=0 *   1 point

○ if x > y

○ if x ≤ y

○ if x ≥ y

◉ if x < y

○ if x = y or relationship between x and y can't be established

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7.X^2-4X-221=0 , Y^2-Y-132=0 *   1 point

○ if x > y

○ if x ≤ y

○ if x ≥ y

○ if x < y

◉ if x = y or relationship between x and y can't be established

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8. X^2+31X+228=0 , Y^2+28Y+187=0 *   1 point

○ if x > y

○ if x ≤ y

○ if x ≥ y

○ if x < y

◉ if x = y or relationship between x and y can't be established

9. I. $2Y^2-15Y+28$, II. X- The product of LCM and HCF of two number is 24. If the difference of the two numbers is 2,then find the numbers *

1 point

○ if x > y

○ if x ≤ y

◉ if x ≥ y

○ if x < y

○ if x = y or relationship between x and y can't be established

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10.$x^2-35x+306=0$, $y^2-44y+475=0$ *

1 point

○ if x > y

○ if x ≤ y

○ if x ≥ y

◉ if x < y

○ if x = y or relationship between x and y can't be established

11. Rachita enters a shop to buy ice-creams, cookies and pastries. She has to buy at least　1 point
9 units of each. She buys more cookies than ice-creams and more pastries than cookies.
She picks up a total of 32 items. How many cookies does she buy? [SBI CLERK] *

○ a) Either 12 or 13

○ b) Either 11 or 12

◉ c) Either 10 or 11

○ d) Either 9 or 11

○ e)Either 9 or 10

12. The fare of a bus is Rs.X for the first five kilometres and Rs.13 per kilometer thereafter.　1 point
If a passenger pays Rs.2,402 for a journey of 187 kilometres, what is the value of X? [SBI
CLERK] *

○ a) Rs. 29

○ b) Rs. 39

◉ c) Rs. 36

○ d) Rs. 31

○ e)None of these

13.The total cost of 8 buckets and 5 mugs is 92 and the total cost of 5 buckets and 8   1 point
mugs is 77.Find the cost of 2 mugs and 3 buckets. *

⦿ 35

◯ 70

◯ 38

◯ 30

14.Mohan gets 3 marks for each correct sum and loses 2 marks for each wrong sum .He   1 point
attempts 30 sums and obtains 40 marks.The number of sums evolved correctly is *

◯ 12

⦿ 20

◯ 15

◯ 18

15. The cost of 10 kg of apples is equal to the cost of 24 kg of rice. The cost of 6 kg of   1 point
flour equals the cost of 2 kg of rice. The cost of each kg of flour is Rs.20.50. Find the total
cost of 4 kg of apples, 3 kg of rice and 5 kg of flour? *

○ A. Rs.849.40

◉ B. Rs.877.40

○ C. Rs.901.60

○ D. Rs.815.20

○ E. None of these

16. The number obtained by interchanging the two digits of a two-digit number is less   1 point
than the original number by 45. If the sum of the two digits of the number so obtained is
13, then what is the original number? *

○ A. 49

◉ B. 94

○ C. 83

○ D. Either (a) or (b)

○ E. None of these

17. Find the value of x and y from the given equation:3x + 2y = 4, 8x + 5y = 9. *   1 point

○ {(2, 5)}

◉ {(-2. 5)}

○ {(-2, 3)}

○ {(1, 3)}

18. Find the value of the given below informationSolve: 6/x + 3/y = 11, 3/x + 9/y = 11. *   1 point

◉ x = 3/2, y = 1

○ x = 3, y =1

○ x = 2, y = 1

○ x = 1, y =3

19. The value of y in the solution of the equation $2^{(x + y)} = 2^{(x - y)} = \sqrt{8}$ is: *   1 point

◉ 0

○ 1/4

○ 1/2

○ 3/4

20. A man has some hens and cows. If the number of heads be 48 and number of feet equals 140, the number of hens will be: *   1 point

◉ 26

○ 24

○ 23

○ 22

21. I. $3x^2 - 37x + 110 = 0$,II. $6y^2 - 80y + 264 = 0$ *   1 point

○ if x > y

○ if x ≤ y

○ if x ≥ y

○ if x < y

◉ if x = y or relationship between x and y can't be established

22. I. $15x^2 + 29x + 8 = 0$, II. $4y^2 - 71y - 18 = 0$ *   1 point

○ if x > y

○ if x ≤ y

○ if x ≥ y

◉ if x < y

○ if x = y or relationship between x and y can't be established

23.I. $4x^2 - 13x - 17 = 0$,II. $60y^2 - 326y - 22 = 0$ *   1 point

○ if x > y

○ if x ≤ y

○ if x ≥ y

○ if x < y

◉ if x = y or relationship between x and y can't be established

24. I. $x^2 - 10.5x + 22.5 = 0$, II. $37y^2 - 49y - 186 = 0$ *   1 point

○ if x > y

○ if x ≤ y

◉ if x ≥ y

○ if x < y

○ if x = y or relationship between x and y can't be established

25. I. $x^2 + 5x - 84 = 0$, II. $y^2 + 27y + 180 = 0$ *   1 point

○ x > y

○ x < y

◉ x ≥ y

○ x ≤ y

○ x = y or relationship between x and y can't be established

Thankyou!!!

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