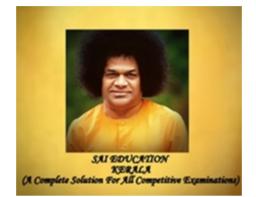
## Online coaching day 89 (06-07-2019)Saturday

Maths- mixture and allegation



## Name of the candidate \*

M5

## Place of the candidate \*

Thrissur

Phone number of the candidate \*

9999999999

Please watch the online video



https://youtu.be/NVahA5gJBHY https://youtu.be/zjlKLIIM9I0

**Untitled Section** 

1. A mixture of milk and water contains 80% milk. In 50 litre of such 1 point a mixture how many litres of water is required to increase the percentage of waterto 50% \*

$\bigcirc$	10	
0	20	
•	30	
0	15	

2. In what proportion must rice at 310 Rs/ kg is mixed with rice at 1 point 360 Rs/ kg, so that the mixture become is of 325 Rs/kg \*

3:2
3:7
7:3
2:3

3. A jar full of whisky contains 40% alcohol. Apart of this whisky is replaced by another containing 19% of alcohol and now percentage of alcohol was formed to be 26%. How much quantity of whisky is replaced. \*

1/3
2/3
1/4
3/4

4. The diluted wine contains 8 itre of wine and rest 32 litres of water. <sup>1 point</sup> How many litres of mixture shall be replaced by pure wine, so that new mixture become 30% pure wine? \*

0	20
•	5
0	15
$\bigcirc$	10

5. In the 75 litre of mixture of soda and water ratio of soda and mater is 4:1. The quantity of water required to make the ratio of soda and water 3:1 is? \*

$\bigcirc$	5	
$\bigcirc$	3	
$\bigcirc$	7	
$\bigcirc$	10	

6. A mixture of milk and water in a jar comprises 12 litre of milk. If 8 <sup>1 point</sup> litre of pure milk and 3 litre of water were added to this jar. The % of water in the new mixture would be 20%. What was the initial quantity of water in the jar. \*

0	1	
۲	2	
$\bigcirc$	3	
$\bigcirc$	4	

7. 2 alloys of gold and copper are prepared by mixing in the ratio of 1 point
7:2 and 7:11. A third alloy is made after mixing the equal quantities of 2 alloys. The ratio of gold and copper in the third alloy is? \*

- 5:7
  3:7
  7:3
- 7:5

8. 2 equal vessels are filled with the mixture of water and milk in the 1 point ratio 3:4 and 5:3. If the mixture are poured in to a 3rd vessel. The ratio of water and milk in the 3rd vessel will be \*

59/53
20/37
45/37

53/59

9. A can contains a mixture of 2 liquids A and B in the ratio 7:5. <sup>1 point</sup> When 9 litre of mixture are drawn off and the can is filled with B. The ratio of A and B becomes7:9. How many litres of liquid A was contained by the can initially? \*

10. How many kg of sugar costs 9Rs/kg must be mixed with 27 kg 1 point of sugar costing 7/ kg. So that there may be a gain of 10% by selling the mixture at 9.24/kg. \*

11. A container contains 192 litres of milk. A seller draws out x% of 1 point milk and replaced it with same quantity of water. He repeated the same process for 3 times and this milk content in the mixture is only 81 litres. Then how much percent he withdraw everytime? \*

$\bigcirc$	30	
۲	25	
0	20	
$\bigcirc$	35	

12. In what ratio, should mix 40 Rs/ kg wheat with 60Rs/kg wheat. <sup>1 point</sup> So that cost price of mixture becomes 55Rs/kg. \*

	1:3
$\bigcirc$	2:3
0	3:1
0	3:2

13. Ratio of milk and water in mixture A and B are 5:3 &11:5. Find ratio of milk and water if mixture A and B are mixed equally. \*

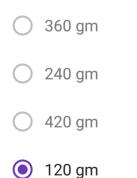
21:11

- 23:11
- 0 11:21
- 11:23

14. In a container A and B, ratio of milk and water is 4:5 and 5:1 <sup>1 point</sup> respectively. In what ratio, should we mix both so that ratio of milk and water becomes 5:4? \*

2:3
2:5
5:2
3:2

15. A mixture of 600 gm contains 60% sugar and rest is water. How 1 point much water is to be added in it so that in new mixture, water and sugar are in equal? \*



16. In 40 litre of mixture, milk and water in the ratio 3:1. How much <sup>1 point</sup> water should be added to this mixture become 2:1 \*



17. Pure ghee costs Rs 100/ kg after adultering at with vegetable oil 1 point costs Rs 50/ kg. A shopkeeper sells this mixture at the rate of Rs 96/ kg. There by making a profit of 20% . In what ratio does he mix the two. \*

	3:2	
0	1:2	
0	2:5	

2:3

18. The average age of students in a class is 15.8 years. The average age of boys in the class is 16.4 years, and that if girls is 15.4 years. The ratio of boys to girls is \*

2:3
3:2
1:3
3:1

19. The average salary of all the workers in a workshop is 8000Rs. <sup>1 point</sup> The average salary of 7 technicians is 12000/. And the average salary of the rest is 6000. Then total number of workers in the workshop. \*

20. The total population of a village is 5000. The number of males 1 point and females increases by 10% and 15% respectively and consequently the population of the village become 5600. What was the number of males in that village. \*

0	2000
	3000
0	4000
$\bigcirc$	6000

21. Milk and water in a mixture in the ratio 7:5. When 15 litres of <sup>1 point</sup> water added to this, the ratio become 7:8. The total quantity of water in the new mixture \*



22. There are 2 containers of equal capacity. The ratio of milk to water in the 1st is 3:1, and in 2nd 5:2. If they are mixed up the ratio will be \*

- 15:412:3
- 3:5
- 41:15

23. In a mixture of 60 litres, the ratio of acid to water is 2:1. If the ratio of acid and water to be 1:2, then the amount of water to be added to this is \*

$\bigcirc$	40					
$\bigcirc$						
$\bigcirc$	80					

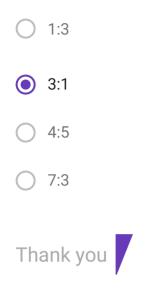
24. Two vessels contains milk and water in the ratio 3:2 and 7:3. <sup>1 point</sup> Find the ratio in which the contents of the two vessels have to be mixed to get a new mixture in which milk and water in the ratio 2:1. \*

2:1

- 1:2
- 3:2
- 2:3

25. Pure milk costing Rs 16/ litre. After adding water the milkman sellsnit for 15/ litre, and there by making a profit of 25%. In what respective ratio does he mix the milk with water. \*

1 point



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