108 DAYS ONLINE COACHING DAY(48) -09/04/2020 THURSDAY

Mixture and Allegation

Name of the candidate *

M3 ▼

Place of the candidate *

Thiruvananthapuram ▼

WHATSAPP NUMBER (JOINED IN SAIEDUCATION ONLINE COACHING PLATFORM) *

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Please watch the following videos and answer the following questions

1.A confectioner sells the milk after mixing some water in it at the same rate at which   1 point
he bought.If he gains 25% in this way, the quantity of water mixed with per litre of milk
is *

🔘 0.25l

⚪ 2.5l

⚪ 1.5l

⚪ 0.35l

2. Sum of Rs.118 was shared among 50 boys and girls,each girl receive Rs.2.60 and boy   1 point
receive Rs.1.80.Find the number of girls. *

⚪ A) 15

⚪ B)25

⚪ C)30

🔘 D)35

3. A Mixture contain 88% of sulphur,another mixture contain 70% of sulphur.In order   1 point
to get 84% of sulphur,in what ratio these two must be mixed. *

⚪ A) 2:7

🔘 B)7:2

⚪ C)7:4

⚪ D)4:5

4. In what ratio water be mixed with juice costing Rs.12 per liter to obtain a mixture worth of Rs.8 per litre? *   1 point

○ A)2:3

○ B)2:1

◉ C)1:2

○ D)3:2

5. In what proportion must sugar at Price 4.10 per kg must be mixed with weat at Price 4.60 per kg, so that the mixture be worth Rs 4.30 a Kg ? *   1 point

◉ A)3:2

○ B)2:3

○ C)5:3

○ D)None of these

6.In what proportion must water be mixed with milk to gain 40 % by selling it at cost price ? *   1 point

○ A) 3:5

○ B)5:3

◉ C)2:5

○ D)3:2

7. 400 gm spirit solution has 30 % spirit in it , what is the ratio of spirit should be added to make it 80 % in the solution ? *

1 point

- ◉ A)2:5
- ○ B)4:3
- ○ C)5:2
- ○ D)2:7

8.One alloy contains silver and copper in the ratio 5:1 and the other contains in the ratio 7:2 respectively. What weights of the 2 must be melted together, so as to make a 5 lb mass with 80% silver? *

1 point

- ○ A)5:3
- ○ B)3:2
- ◉ C)2:3
- ○ D)2:5

9. Box A contains wheat worth Rs.30 per kg and box B contains wheat worth Rs.40 per kg.If both A and B are mixed in the the ratio 4:7 then the price of mixture per kg is *

1 point

- ◉ A)36.36
- ○ B)35.80
- ○ C)42.50
- ○ D)31.30

10. A vessel contains 63 litres of a mixture of milk and water. The ratio of milk to water   1 point
is 3:4. If 14 litres of mixture is taken out from that vessel and then 6 litres of water
added to it,What will be the percentage of milk in the final mixture ? *

○ A)40%

○ B)39%

◉ C)38%

○ D)37%

○ E)None of these

11. A and B are 2 alloys of gold and copper in the ratio 6:3 and 4:7.Equal quantities of   1 point
these alloy mixed to form a new alloy.The ratio of gold and copper in the new alloy is *

○ A)20:21

○ B)21:20

○ C)24:23

◉ D)17:16

○ E)None of these

12. In what ratio grocer mix two varieties of pulses costing Rs.25 and Rs.30 per Kg to get a mix worth Rs.28.75 *   1 point

○ A)1:3

○ B)4:9

○ C)11:4

○ D)4:5

○ E)None of these

13. Two vessels A and B contain Soda and water mixed in the ratio 4:7 and 5:3.Find the   1 point
ratio of mix be mixed to obtain a mix contain soda and water in the ratio 9:2 ? *

○ A)10:40

○ B)16:45

● C)17:40

○ D)40:17

○ E)None of these

14. A merchant has 2500 kg of rice,part of which he sells at 10% profit and the rest at   1 point
16% Profit .He gains 12% overall.The quantity sold at 16% profit is *

○ A)833

○ B)830

○ C)830.33

● D)833.33

○ E)None of these

15.A Man covered a distance of 50km in 5 hrs partly by bus at 12kmph and partly by foot at 7kmph.The distance covered by bus is *

1 point

○ A)20

○ B)10

◉ C)30

○ D)40

○ E)None of these

16. In what ratio water should be added with Juice costing Rs.16 per litre to obtain a mixture worth Rs.6 per litre? *

1 point

○ A)3:5

○ B)2:3

○ C)3:2

◉ D)5:3

○ E)None of these

17. 2 varieties of juice are mixed in the ratio of 4:5. The price of 1st variety juice is Rs.14per litre while the second variety is Rs.17 per litre.Find the average price of the mixture ? *

1 point

○ A)Rs.15.03

◉ B)Rs.15.67

○ C)Rs.16.78

○ D)Rs.17.43

○ E)None of these

18. A milkman mixes 6 litres of free tap water with 18litres of pure milk. If the cost of pure milk is Rs.28 per litre the % Profit of the milkman when he sells all the mixture at the cost price is *

1 point

○ A)25%

○ B)16.5%

◉ C) 33(1/3)%

○ D)16(1/3)%

○ E)None of these

19. In a 80 litre mixture of milk and water, the % of water is only 25%. The milkman 1 point
gave 15 litres of this mixture to a customer and then added 15 litres of water to the
remaining mixture. What is the % of milk in the final mixture ? *

- (●) A)61%
- ◯ B)57%
- ◯ C)49%
- ◯ D)63%
- ◯ E)None of these

20. In 600 gram of mixture of salt and water, there is 40 % water. How much water 1 point
should be converted to steam so that water in the mixture remains 25 %. *

- ◯ A)90grams
- (●) B)120grams
- ◯ C)170grams
- ◯ D)70grams
- ◯ E)None of these

21. A dishonest milkman mix water with milk, which costs Rs.35 per litre, to make a profit of 30%. If he sells the resulting mixture at Rs 39 per litre find out what is the ratio of water and milk in the mixture sold by him(Water is available without any cost) *

1 point

○ a) 1:3

○ b) 1:5

○ c) 1:4

○ d) 1:2

◉ e) 1:6

22. Solution A has alcohol and water in the ratio 3:1. Solution B has water and alcohol in the ratio 2:3.In what ratio must A and B be mixed such that the ratio of alcohol and water in the resultant solution is 7:3 *

1 point

○ a) 1:2

◉ b) 2:1

○ c) 1:6

○ d) 6:1

○ e) 4:3...

23. A 56 litre mixture contains milk and water in the ratio of 5 : 2 . How much water should be added to the mixture so as make the resultant mixture containing 40% water in it? *

1 point

○ A) 35/6 l

○ B) 40/3 l

○ C) 29/3 l

○ D) 27/2 l

◉ E) 32/3 l

24. A mixture of 30 litres contains milk and water in the ratio 7 : 3. 10 litres of the mixture is taken out and replaced with pure milk and the same operation is repeated one more time. Find the final ratio of milk to water in the mixture. *

1 point

○ A) 12 : 7

○ B) 9 : 4

◉ C) 13 : 2

○ D) 15 : 7

○ E) 11 : 5

25. How much milk (in litres) costing Rs 50 per litres should be mixed with 18 litres of milk costing Rs 56 per litres so that there is a profit of 25% on selling the mixture at Rs 65 per litres? *

1 point

○ A) 25 l

○ B) 32 l

○ C) 17 l

◉ D) 36 l

○ E) 46 l

Thankyou!!!