

108 Days Online Coaching Day (33)~11/02/2021, THURSDAY

MIXTURE & ALLEGATIONS



NAME OF THE CANDIDATE *

M3

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<https://youtu.be/NVahA5gJBHY>

<https://youtu.be/zjIKLIIM9I0>

Q.1. In what ratio must two kinds of sugar at Rs. 1.15 and Rs. 1.24 per kg be mixed so that by selling at Rs. 1.50 per kg, 25% may be gained? * 1 point

4: 5

5: 4

1: 1

2: 3

Q.2. How much sugar at Rs. 9.5 a kg should be added to 17 kg of tea at Rs. 20 a kg so that the mixture be worth Rs. 13 a kg.? * 1 point

11 kg

14 kg

17 kg

34 kg

Q.3. One type of liquid contains 25 % of benzene, the other contains 30% of benzene. A can is filled with 6 parts of the first liquid and 4 parts of the second liquid. Find the percentage of benzene in the new mixture. * 1 point

30

25

20

27

Q.4 . A mixture contain 88% of Sulphur, another mixture contain 70 % Sulphur. In order to get 84 % of Sulphur, in what ratio these two must be mixed? * 1 point

- 2:7
- 7:2
- 7:4
- 4:5

Q. 5. In what ratio water be mixed with juice costing Rs. 12 per liter to obtain a mixture worth of Rs.8 per liter? * 1 point

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

Q.6. 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

- 2:5
- 4:3
- 5:2
- 2:7

Q.7. *

1 point

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

- 20:21
- 17:16
- 21:20
- 24:23

Q.8: 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

- 1:3
- 4:9
- 11:4
- 4:5

Q .9: In what ratio water should be added with juice costing Rs.16 per liter to obtain a mixture worth Rs.6 per liter? *

1 point

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

Q .10: *

1 point

A goldsmith has two qualities of gold, one of 10 carats and another of 5 carates purity. In what proportion should he mix both to make an ornament of 8 carats purity ?

- 5:9
- 7:11
- 3:7
- 3:2

Q .11: A man invests Rs. 3500 into 2 parts at simple interest, one at 4% and other 6%. If his yearly income from investment is Rs. 170. How much did he invest at 6%? *

1 point

- 1800
- 1500
- 1790
- 1795

Q 12: In what ratio must a grocer mix two varieties of pulses costing Rs. 15 and Rs. 20 per kg respectively so as to get a mixture worth Rs. 16.50 kg? *

1 point

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

Q.13 . Tea worth Rs. 126 per kg and Rs. 135 per kg are mixed with a third variety in the ratio 1 : 1 : 2. If the mixture is worth Rs. 153 per kg, the price of the third variety per kg will be:? *

1 point

- Rs. 169.50
- Rs. 170
- Rs. 175.50
- Rs. 180

Q. 14: How many kilogram of sugar costing Rs. 9 per kg must be mixed with 27 kg of sugar costing Rs. 7 per kg so that there may be a gain of 10% by selling the mixture at Rs. 9.24 per kg? *

1 point

- 36 kg
- 42 kg
- 54 kg
- 63 kg

Q. 15: Find the ratio in which rice at Rs. 7.20 a kg be mixed with rice at Rs. 5.70 a kg to produce a mixture worth Rs. 6.30 a kg? *

1 point

- 1 : 3
- 2 : 3
- 3 : 4
- 4 : 5

Q. 16: In what ratio must a grocer mix two varieties of tea worth Rs. 60 a kg and Rs. 65 a kg so that by selling the mixture at Rs. 68.20 a kg he may gain 10%? *

- 3 : 2
- 3 : 5
- 3 : 4
- 4 : 5

Q. 17: The cost of Type 1 rice is Rs. 15 per kg and Type 2 rice is Rs. 20 per kg. If both Type 1 and Type 2 are mixed in the ratio of 2 : 3, then the price per kg of the mixed variety of rice is: *

- Rs. 18
- Rs. 18.50
- Rs. 19
- Rs. 19.50

Q. 18: A merchant has 1000 kg of sugar, part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. The quantity sold at 18% profit is: *

- 400 kg
- 560 kg
- 600 kg
- 640 kg

Q. 19: *

1 point

Gold is 19 times as heavy as water and copper is 9 times heavy. In what ratio must these metals be mixed so that the mixture may be 15 times as heavy as water?

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

Q. 20: *

1 point

In a mixture of 45 litres, the ratio of milk and water is 3 : 2. How much water must be added to make the ratio 9 : 11?

- 15 litres
- 10 litres
- 17 litres
- 20 litres

THANK YOU

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