GATE   Hinglish

General Aptitude
Quantitative Aptitude
Mixture and Alligations

DPP-03

1. How many Kg of rice costing ₹9 per kg must be mixed with 27 kg of rice costing ₹7 per kg so that there may be gain of 10% by selling the mixture at ₹9.24 per kg?
   (a) 63 kg
   (b) 42 kg
   (c) 54 kg
   (d) 36 kg

2. Two vessels P and Q contain milk and water mixed in the ratio 8:5 and 5:2 respectively. In what ratio these two mixtures are to be mixed to get a new mixture containing $69\frac{3}{13}$% milk?
   (a) 2 : 7
   (b) 5 : 7
   (c) 5 : 2
   (d) 3 : 5

3. In a mixture of 60 litres, the ratio of milk and water is 2:1. What amount of water must be added to make the ratio of milk and water as 1:2?
   (a) 56 litres
   (b) 42 litres
   (c) 60 litres
   (d) 77 litres

4. Find the ratio in which sugar at ₹7.20 a kg be mixed with sugar at ₹5.70 a kg to produce a mixture worth ₹6.30 a kg.
   (a) 2 : 3
   (b) 3 : 4
   (c) 4 : 5
   (d) 1 : 3

5. A merchant has 1000 kg of wheat flour, part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. Find the quantity he sold at 18% profit.
   (a) 400 kg
   (b) 560 kg
   (c) 600 kg
   (d) 640 kg

6. One quality of sugar at ₹9.30 per kg mixed with another quality at a certain rate in the ratio 8:7. If the mixture so formed be worth ₹10 per kg, what is the rate per kg of the second quality of sugar?
   (a) ₹10.30
   (b) ₹10.60
   (c) ₹10.80
   (d) ₹11

7. A milk vendor hs two cans of milk. The first contains 25% water and rest milk. The second 50% water. How much quantity should be mixed from each of the containers so as to get 12 litre of mixture where the ratio of water to milk is 3:5?
   (a) 4 litre; 8 litre
   (b) 6 litre; 6 litre
   (c) 5 litre; 7 litre
   (d) 7 litre; 5 litre

8. Two vessels A and B contain Spirit and Water mixed in the ratio 5:2 and 7:6 respectively. Find the ratio in which these mixtures be mixed to obtain a new mixture in vessel C containing spirit and water in the ratio 8:5.
   (a) 4 : 3
   (b) 3 : 4
   (c) 5 : 6
   (d) 7 : 9

9. In a mixture of 48 litre, the ratio of milk and water is 2 : 1. if this ratio is to be 1 : 3, then what is the quantity of water to be further added?
   (a) 96 litre
   (b) 72 litre
   (c) 60 litre
   (d) 80 litre

10. In what ratio must a grocer mix two verities of rice worth ₹40 per kg and ₹48 per kg so that by selling the mixture at ₹50.6 per kg he may gain 10%?
    (a) 1 : 2
    (b) 1 : 3
    (c) 2 : 3
    (d) 4 : 1

❑ ❑ ❑

Answer Key

1. (a)
2. (a)
3. (c)
4. (a)
5. (c)

6. (c)
7. (b)
8. (d)
9. (d)
10. (b)

❏ ❏ ❏