

CLAT Community

daily
QT

SECTIONAL TEST

136

DAYS TO GO FOR
CLAT 2027



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OUR RANKERS

1 in every 4 of CLAT Community's students
are now placed in Top 5 NLUs.



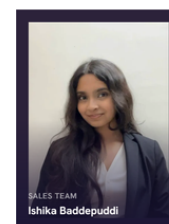
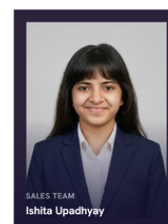
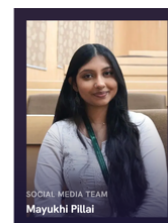
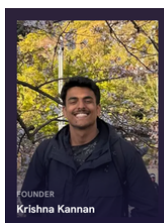
AND
MANY
MORE.

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OUR COURSES



OUR MENTORS



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MENTORS' NOTE

Good morning everyone,

If you're reading this, you're already doing something that thousands of CLAT aspirants never do—you've shown up today. That might sound like a small thing, but over the next few months you'll realise that success in CLAT is rarely decided by one brilliant mock or one 12-hour study session. It's decided by the hundreds of ordinary days where you choose to sit down and study even when you don't feel like it.

The entire CLAT Community team is rooting for you. Whenever you're stuck, ask doubts, discuss questions, and make use of the people around you. You don't have to prepare alone. We hope today's material helps you take one more step towards your dream.

Now stop reading this note and get to work. Your future self will thank you for the effort you put in today.

All the best.

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Quantitative Aptitude

Passage I

Himalayan Tea Blends supplies specialty tea to cafes across the city, mixing leaves of different origins and price points to create custom blends ordered by clients. The shop's blenders combine batches in varying proportions depending on the desired strength, flavour, and cost per kilogram, and occasionally adjust an existing mixture by adding a fresh batch to shift its overall composition. Separately, the shop's in-house chai counter prepares milk mixtures by combining fresh milk with water in specific ratios to meet daily demand, sometimes replacing part of an already-diluted mixture with pure milk or water to restore its desired composition. Study the following details about the tea blends and milk mixtures prepared today, then answer the questions below.

1. A tea blend is prepared by mixing Assam tea costing ₹240/kg with Darjeeling tea costing ₹360/kg in the ratio 3:2. Find the cost price of the mixture per kg.

- (A) ₹276
- (B) ₹288
- (C) ₹300
- (D) ₹312

2. In what ratio should tea costing ₹200/kg be mixed with tea costing ₹350/kg so that the resulting mixture costs ₹260/kg?

- (A) 2:3
- (B) 3:2
- (C) 5:3
- (D) 3:5

3. A 40-litre mixture of milk and water contains milk and water in the ratio 3:1. Find the quantity of water that must be added to make the ratio of milk to water 3:2.

- (A) 5 litres
- (B) 8 litres
- (C) 10 litres
- (D) 12 litres

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4. A container has 60 litres of a milk-water mixture in which milk forms 80% of the volume. 15 litres of this mixture is removed and replaced with pure water. Find the percentage of milk in the resulting mixture.

- (A) 55%
- (B) 60%
- (C) 62%
- (D) 65%

5. A vessel contains 80 litres of pure milk. 20 litres of the mixture is withdrawn and replaced with water; this process of withdrawing 20 litres and replacing it with water is carried out twice in total. Find the quantity of milk left in the vessel after the second replacement.

- (A) 40 litres
- (B) 45 litres
- (C) 48 litres
- (D) 50 litres

6. A shopkeeper mixes three varieties of tea costing ₹180/kg, ₹240/kg, and ₹300/kg in the ratio 2:3:5 respectively. Find the average cost per kg of the resulting mixture.

- (A) ₹246
- (B) ₹252
- (C) ₹258
- (D) ₹264

Passage II

Sunflower Cooperative Credit Society offers small loans and fixed deposits to its members at fixed annual rates of simple interest. Depending on the purpose of the loan or the term of the deposit, the society applies different rates, and members occasionally alter their deposits mid-term by withdrawing a portion, which changes the total interest earned or payable at maturity. The society follows a straightforward simple-interest policy for all its regular transactions, calculating interest only on the principal amount actually held with the society for the relevant duration, without any compounding. Study the following details about the loans and deposits made through the society this month, then answer the questions below.

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7. A member deposits ₹50,000 with the society at a simple interest rate of 8% per annum. Find the interest earned at the end of 3 years.

- (A) ₹10,000
- (B) ₹11,000
- (C) ₹12,000
- (D) ₹13,000

8. A member borrows a sum of money at 10% simple interest per annum and repays ₹6,600 as interest after 4 years. Find the principal amount borrowed.

- (A) ₹15,000
- (B) ₹15,500
- (C) ₹16,000
- (D) ₹16,500

9. A sum of ₹40,000 amounts to ₹52,000 in 5 years under simple interest. Find the annual rate of interest.

- (A) 5%
- (B) 6%
- (C) 7%
- (D) 8%

10. A member deposits ₹30,000 for 2 years at 9% per annum simple interest. At the end of the first year, she withdraws ₹10,000, which stops earning further interest, while the remaining amount continues to earn interest for the second year. Find the total interest earned at the end of the 2-year term.

- (A) ₹4,200
- (B) ₹4,500
- (C) ₹4,800
- (D) ₹5,100

11. Two members deposit ₹25,000 and ₹35,000 respectively, the first at 6% per annum and the second at 8% per annum, both for 3 years. Find the difference between the interest earned on the two deposits.

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- (A) ₹3,600
- (B) ₹3,900
- (C) ₹4,200
- (D) ₹4,500

12. A sum of ₹60,000 is divided into two parts. The first part is invested at 2% per annum simple interest for 3 years, and the second part is invested at 5% per annum simple interest for 2 years. If the simple interest earned from both parts is equal, find the value of the first part.

- (A) ₹32,500
- (B) ₹35,000
- (C) ₹37,500
- (D) ₹40,000



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ANSWER KEY**Q1.**

Using the weighted average: cost per kg = $(3 \times 240 + 2 \times 360)/(3+2)$.

$$= (720 + 720)/5 = 1440/5 = ₹288.$$

Answer → (B) ₹288

Q2.

By the rule of alligation, the required ratio = $(350 - 260) : (260 - 200) = 90 : 60 = 3 : 2$.

Answer → (B) 3:2

Q3.

In 40 litres with milk:water = 3:1, milk = 30 litres and water = 10 litres.

Since only water is added, milk stays at 30 litres. For milk:water = 3:2, water needed = $30 \times (2/3) = 20$ litres.

Water to be added = $20 - 10 = 10$ litres.

Answer → (C) 10 litres

Q4.

Initial mixture (60 L, 80% milk): milk = 48 L, water = 12 L.

Removing 15 L of the uniform mixture removes milk = $15 \times (48/60) = 12$ L and water = $15 \times (12/60) = 3$ L.

Remaining: milk = $48 - 12 = 36$ L, water = $12 - 3 = 9$ L. Adding 15 L pure water gives water = $9 + 15 = 24$ L, total = 60 L.

Percentage of milk = $36/60 \times 100 = 60\%$.

Answer → (B) 60%

Q5.

Using the repeated-replacement formula: milk left = initial volume $\times (1 - \text{removed}/\text{total})^n$, where n is the number of replacements.

$$\text{Milk left} = 80 \times (1 - 20/80)^2 = 80 \times (3/4)^2 = 80 \times 9/16 = 45 \text{ litres.}$$

Answer → (B) 45 litres

Q6.

Weighted average cost = $(2 \times 180 + 3 \times 240 + 5 \times 300)/(2+3+5)$.

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$$= (360 + 720 + 1500)/10 = 2580/10 = ₹258.$$

Answer → (C) ₹258

Q7.

$$\text{Simple Interest} = (\text{Principal} \times \text{Rate} \times \text{Time})/100 = (50,000 \times 8 \times 3)/100 = ₹12,000.$$

Answer → (C) ₹12,000

Q8.

$$\text{Principal} = (\text{Interest} \times 100)/(\text{Rate} \times \text{Time}) = (6,600 \times 100)/(10 \times 4) = 6,60,000/40 = ₹16,500.$$

Answer → (D) ₹16,500

Q9.

$$\text{Interest earned} = ₹52,000 - ₹40,000 = ₹12,000.$$

$$\text{Rate} = (\text{Interest} \times 100)/(\text{Principal} \times \text{Time}) = (12,000 \times 100)/(40,000 \times 5) = 12,00,000/2,00,000 = 6\%.$$

Answer → (B) 6%

Q10.

For the first year, interest is earned on the full ₹30,000: interest = $30,000 \times 9 \times 1/100 = ₹2,700$.

After withdrawal of ₹10,000, the remaining ₹20,000 earns interest for the second year: interest = $20,000 \times 9 \times 1/100 = ₹1,800$.

$$\text{Total interest} = ₹2,700 + ₹1,800 = ₹4,500.$$

Answer → (B) ₹4,500

Q11.

$$\text{Interest on first deposit} = (25,000 \times 6 \times 3)/100 = ₹4,500.$$

$$\text{Interest on second deposit} = (35,000 \times 8 \times 3)/100 = ₹8,400.$$

$$\text{Difference} = ₹8,400 - ₹4,500 = ₹3,900.$$

Answer → (B) ₹3,900

Q12.

Let the first part be x , so the second part is $(60,000 - x)$.

$$\text{Interest on first part} = x \times 2 \times 3/100 = 0.06x. \text{ Interest on second part} = (60,000 - x) \times 5 \times 2/100 = 0.10(60,000 - x).$$

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Setting them equal: $0.06x = 0.10(60,000 - x) \rightarrow 6x = 10(60,000 - x) \rightarrow 6x = 6,00,000 - 10x$
 $\rightarrow 16x = 6,00,000.$

$x = 37,500.$

Answer $\rightarrow$ (C) ₹37,500



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