

CLAT Community

daily
QT

SECTIONAL TEST

137

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 NLU's.



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SUHIT KENDURKAR



RIYA CHAUHAN



SHEIKH EHSAN KHALEELULLAH



HRISHIT PODDAR



ROHAN YADAV



TEJAS ROY



ANIRUDDH BAJAJ



KABIR WADHWANI



CANCHI SISTLA AKSHARA



SHIVAM TRIPATHI



HARDIK GAUTAM



MANYA BHASKAR



NAMASHRITA GOPINATH



RONIL DHASAL



VEDA RAO



SAMANDAR SINGH



GANJI HAINDAVI



SAHISHNA



PRANAV. S

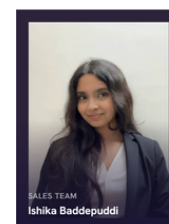
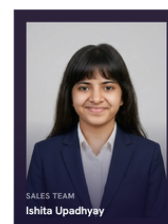
AND
MANY
MORE.

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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

Riverview Ferries operates two boats, the Ganga Queen and the Yamuna Star, connecting Old Town Ghat to Sunrise Pier along a gently flowing river. Each morning, the boats depart together but return separately after completing errands at intermediate stops. To keep commuters engaged during the ride, the ferry company runs a daily lucky-draw: every passenger receives a numbered token from a sealed box before boarding, and one token is drawn at random at the end of the journey to win a free ride voucher. The composition of tokens changes with each trip depending on the number of day-pass holders and single-ride passengers on board. Study the following details about the boats' speeds, the river current, and the token draws for today's crossings, then answer the questions below.

1. The Ganga Queen travels 20 km downstream in 1 hour and returns the same distance upstream in 2 hours. Find the speed of the boat in still water and the speed of the river current respectively.

- (A) 15 km/h, 5 km/h
- (B) 12 km/h, 4 km/h
- (C) 18 km/h, 2 km/h
- (D) 10 km/h, 5 km/h

2. The sealed box carried on the Ganga Queen today contains 8 day-pass tokens and 12 single-ride tokens. If one token is drawn at random at the end of the journey, find the probability that it belongs to a single-ride passenger.

- (A) $\frac{2}{5}$
- (B) $\frac{3}{5}$
- (C) $\frac{1}{2}$
- (D) $\frac{7}{10}$

3. The Yamuna Star's speed in still water is 12 km/h, and the river current flows at 3 km/h. Find the time taken by the boat to cover 45 km upstream.

- (A) 4 hours
- (B) 4.5 hours

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(C) 5 hours

(D) 5.5 hours

4. On the return trip, the Yamuna Star's box contains 10 tokens numbered 1 to 10. Find the probability that a randomly drawn token shows a number that is either a multiple of 3 or an even number.

(A) $\frac{1}{2}$

(B) $\frac{3}{5}$

(C) $\frac{7}{10}$

(D) $\frac{4}{5}$

5. A ferry's speed in still water is 15 km/h and the river current flows at 5 km/h. It travels a certain distance downstream and returns the same distance upstream, taking a total of 6 hours for the round trip. Find the total distance travelled (both ways combined).

(A) 60 km

(B) 70 km

(C) 80 km

(D) 90 km

6. Two tokens are drawn one after another, without replacement, from the Ganga Queen's box containing 8 day-pass tokens and 12 single-ride tokens (20 tokens in all). Find the probability that both tokens drawn are day-pass tokens.

(A) $\frac{7}{50}$

(B) $\frac{14}{95}$

(C) $\frac{2}{15}$

(D) $\frac{8}{45}$

Passage II

The Riverside Regatta Club conducts practice sessions for its rowing teams every weekend on the Meghna canal, where a mild current flows throughout the season. Members row both with and against the current as part of their training routine, alternating routes to build endurance. Alongside training, the club also organises a spectator raffle: visitors purchase numbered tickets from a common draw box, and winning tickets are announced after the

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session to award club merchandise. The number of tickets sold and the mix of ticket categories vary from week to week depending on attendance. Study the following details about the rowing crews' speeds, the canal's current, and this week's raffle draw, then answer the questions below.

7. A rowing crew covers 18 km downstream in 2 hours and the same distance upstream in 3 hours. Find the speed of the crew in still water and the speed of the current respectively.

- (A) 7.5 km/h, 1.5 km/h
- (B) 8 km/h, 1 km/h
- (C) 7 km/h, 2 km/h
- (D) 6.5 km/h, 2.5 km/h

8. This week's raffle box contains 15 member-referred tickets and 25 walk-in tickets. Find the probability that a randomly drawn winning ticket belongs to a walk-in visitor.

- (A) $\frac{3}{8}$
- (B) $\frac{5}{8}$
- (C) $\frac{1}{2}$
- (D) $\frac{3}{5}$

9. A crew's speed in still water is 10 km/h and the canal current flows at 2 km/h. Find the time taken by the crew to cover 32 km downstream.

- (A) 2.5 hours
- (B) 2.67 hours
- (C) 3 hours
- (D) 3.2 hours

10. Among the 40 raffle tickets sold this week, tickets are numbered 1 to 40. Find the probability that a randomly drawn ticket number is divisible by 4 or by 6.

- (A) $\frac{11}{40}$
- (B) $\frac{3}{10}$
- (C) $\frac{13}{40}$
- (D) $\frac{7}{20}$

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11. A crew rows 24 km downstream and returns the same distance upstream, taking a total of 5 hours. If the speed of the current is 2 km/h, find the crew's speed in still water.

- (A) 8 km/h
- (B) 9 km/h
- (C) 10 km/h
- (D) 12 km/h

12. Two tickets are drawn without replacement from this week's box of 15 member-referred and 25 walk-in tickets. Find the probability that the first ticket drawn is member-referred and the second is walk-in.

- (A) $15/52$
- (B) $25/104$
- (C) $5/26$
- (D) $3/13$



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ANSWER KEY**Q1.**

Downstream speed = $20/1 = 20$ km/h. Upstream speed = $20/2 = 10$ km/h.

Speed of boat in still water = $(20 + 10)/2 = 15$ km/h.

Speed of current = $(20 - 10)/2 = 5$ km/h.

Answer → (A) 15 km/h, 5 km/h

Q2.

Total tokens = $8 + 12 = 20$. Single-ride tokens = 12.

Probability = $12/20 = 3/5$.

Answer → (B) $3/5$

Q3.

Upstream speed = still-water speed – current speed = $12 - 3 = 9$ km/h.

Time = distance/speed = $45/9 = 5$ hours.

Answer → (C) 5 hours

Q4.

Multiples of 3 in 1–10: {3, 6, 9} → 3 numbers. Even numbers in 1–10: {2, 4, 6, 8, 10} → 5 numbers.

Number 6 is counted in both sets, so by the addition rule: favourable outcomes = $3 + 5 - 1 = 7$.

Probability = $7/10$.

Answer → (C) $7/10$

Q5.

Downstream speed = $15 + 5 = 20$ km/h. Upstream speed = $15 - 5 = 10$ km/h.

Let one-way distance = d . Time downstream + time upstream = $d/20 + d/10 = 6$.

This simplifies to $(d + 2d)/20 = 6$, i.e., $3d/20 = 6$, so $d = 40$ km.

Total distance travelled (both ways) = $2 \times 40 = 80$ km.

Answer → (C) 80 km

Q6.

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$P(\text{first token is day-pass}) = 8/20.$

Given the first was day-pass, $P(\text{second token is also day-pass}) = 7/19.$

$P(\text{both day-pass}) = (8/20) \times (7/19) = 56/380 = 14/95.$

Answer $\rightarrow$ (B) $14/95$

Q7.

Downstream speed $= 18/2 = 9$ km/h. Upstream speed $= 18/3 = 6$ km/h.

Speed of crew in still water $= (9 + 6)/2 = 7.5$ km/h.

Speed of current $= (9 - 6)/2 = 1.5$ km/h.

Answer $\rightarrow$ (A) 7.5 km/h, 1.5 km/h

Q8.

Total tickets $= 15 + 25 = 40$. Walk-in tickets $= 25$.

Probability $= 25/40 = 5/8.$

Answer $\rightarrow$ (B) $5/8$

Q9.

Downstream speed $= 10 + 2 = 12$ km/h.

Time $= 32/12 = 8/3 \approx 2.67$ hours.

Answer $\rightarrow$ (B) 2.67 hours

Q10.

Multiples of 4 from 1–40: $40/4 = 10$ numbers. Multiples of 6 from 1–40: $[40/6] = 6$ numbers.

Multiples of both 4 and 6 (i.e., multiples of 12): $[40/12] = 3$ numbers.

By the addition rule, favourable outcomes $= 10 + 6 - 3 = 13.$

Probability $= 13/40.$

Answer $\rightarrow$ (C) $13/40$

Q11.

Let the crew's speed in still water be b km/h. Downstream speed $= b+2$, upstream speed $= b-2.$

$24/(b+2) + 24/(b-2) = 5.$

This gives $24(b-2) + 24(b+2) = 5(b^2 - 4)$, i.e., $48b = 5b^2 - 20$, so $5b^2 - 48b - 20 = 0.$

Solving this quadratic: $b = (48 + 52)/10 = 10$ (taking the positive root).

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Check: downstream speed = 12 km/h (time = 2 h), upstream speed = 8 km/h (time = 3 h);
total = 5 h. ✓

Answer → (C) 10 km/h

Q12.

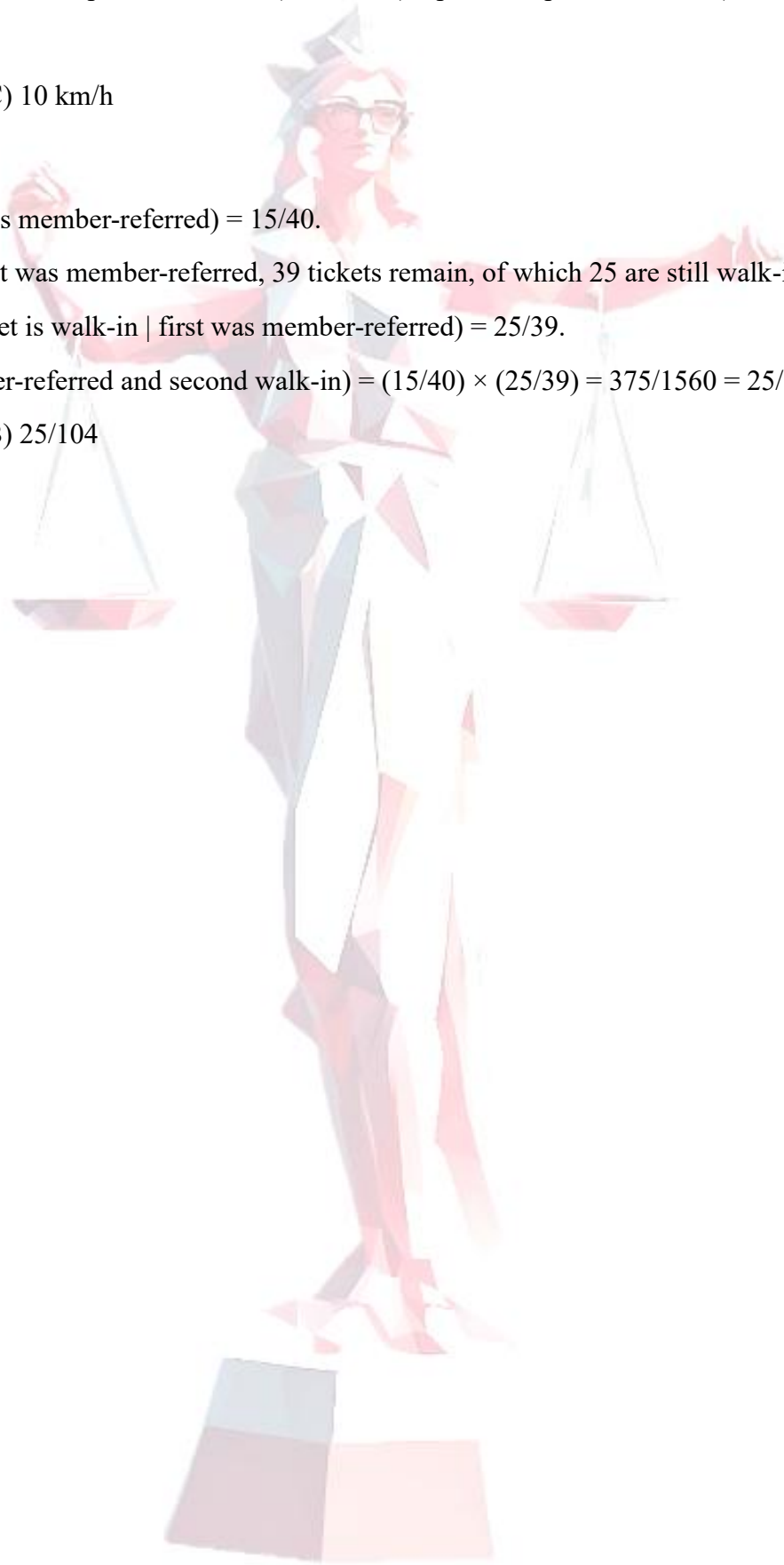
$P(\text{first ticket is member-referred}) = 15/40$.

Given the first was member-referred, 39 tickets remain, of which 25 are still walk-in.

$P(\text{second ticket is walk-in} \mid \text{first was member-referred}) = 25/39$.

$P(\text{first member-referred and second walk-in}) = (15/40) \times (25/39) = 375/1560 = 25/104$.

Answer → (B) 25/104



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