

CLAT Community

daily QT

SECTIONAL TEST

40

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.



SAHER GOLE



PARTHIVA SUSHANTH



MIHIKA AGGARWAL



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

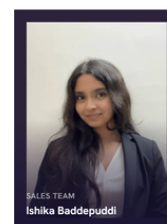
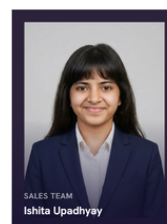
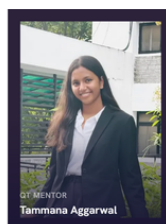
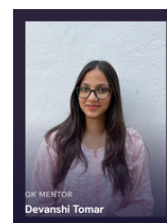
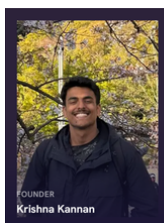
AND
MANY
MORE.

clat community

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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DAILY QT

PASSAGE 1 — LUMEN GAMES: DRAWS FROM URNS & CONDITIONAL PROBABILITY

Lumen Games runs a prize draw in which players reach into one of two sealed urns. Urn A contains 12 balls: 3 red, 4 blue and 5 green. Players draw two balls from Urn A in succession, and the prize depends on the colours drawn. Unless a question says otherwise, the balls are drawn without replacement, so the first ball is not returned to the urn before the second is drawn.

The game designers study how often a player wins a prize under different rules. Some rules award a prize only when both balls share a colour. Others award a prize when at least one ball is red. A third variant uses replacement, meaning the first ball is returned to the urn before the second draw, so the two draws are independent. Conditional probability matters in these rules because a player may be told that a particular colour appeared before deciding whether to continue the game.

Designers check their probabilities by counting favourable outcomes and dividing by the total number of equally likely pairs. For each colour, the number of ways to draw two balls of that colour is a combination, not a permutation, because the order of the two balls does not change the prize. Unless stated otherwise, every ball is equally likely to be chosen on each draw.

1. Two balls are drawn from Urn A without replacement. The probability that both balls are the same colour is:

- (A) $19/66$
- (B) $5/11$
- (C) $2/9$
- (D) $4/9$

2. Two balls are drawn from Urn A without replacement. The probability that at least one ball is red is:

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- (A) $\frac{1}{3}$
- (B) $\frac{5}{11}$
- (C) $\frac{2}{9}$
- (D) $\frac{7}{12}$

3. Two balls are drawn from Urn A without replacement. The probability that the first ball is red and the second is green is:

- (A) $\frac{1}{12}$
- (B) $\frac{3}{22}$
- (C) $\frac{5}{44}$
- (D) $\frac{1}{4}$

4. Two balls are drawn from Urn A with replacement. The probability that exactly one of the two balls is blue is:

- (A) $\frac{1}{3}$
- (B) $\frac{2}{9}$
- (C) $\frac{8}{27}$
- (D) $\frac{4}{9}$

5. Two balls are drawn from Urn A without replacement. Given that at least one ball is green, the probability that both balls are green is:

- (A) $\frac{2}{9}$
- (B) $\frac{1}{4}$
- (C) $\frac{5}{22}$
- (D) $\frac{1}{3}$

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6. Two balls are drawn from Urn A without replacement. The probability that the two balls are of different colours is:

- (A) $47/66$
- (B) $19/66$
- (C) $5/11$
- (D) $4/9$

PASSAGE 2 — VERTEX EVENTS: HANDSHAKES, DIAGONALS & COMMITTEES

Vertex Events hosts a networking dinner for twelve guests, and the organisers want to understand how people connect, how many diagonals a seating layout creates, and how to form small committees. Each guest shakes hands with every other guest exactly once when they arrive, and the organisers model this as a graph in which guests are vertices and handshakes are edges.

The organisers also consider a special case in which every guest shakes hands with exactly three others, forming a regular graph. They relate the number of edges in such a graph to the number of vertices and the degree of each vertex, since every edge contributes to the degree of two vertices. Separately, the venue has a convex dining table with twelve sides, and the organisers count the straight lines joining non-adjacent corners, which are called diagonals.

A committee of four guests is to be formed for the closing speech. The organisers want the committee to include at least one of two guests who are speakers at the event, and they also count the committees that include both speakers. Triangles formed by three corners of a convex hexagon are used in the venue's floor layout. Unless stated otherwise, all counts are for distinct guests and distinct sides or corners.

7. The number of handshakes when each of the 12 guests shakes hands once with every other guest is:

- (A) 56

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(B) 66

(C) 72

(D) 60

8. In a graph of 12 guests in which every guest shakes hands with exactly three others, the number of handshakes is:

(A) 12

(B) 24

(C) 15

(D) 18

9. The number of diagonals of a convex 12-sided table is:

(A) 48

(B) 60

(C) 54

(D) 44

10. The number of triangles that can be formed using three corners of a convex hexagon is:

(A) 20

(B) 15

(C) 30

(D) 18

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11. The number of committees of four guests, chosen from the twelve guests, that include at least one of the two speakers is:

- (A) 210
- (B) 285
- (C) 255
- (D) 300

12. The number of committees of four guests, chosen from the twelve guests, that include both speakers is:

- (A) 36
- (B) 55
- (C) 45
- (D) 28



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ANSWER KEY**PASSAGE 1 — LUMEN GAMES (URNS & CONDITIONAL PROBABILITY)**

Q1: (A) $19/66$ — Same-colour pairs: $C(3,2) + C(4,2) + C(5,2) = 3 + 6 + 10 = 19$. Total pairs: $C(12,2) = 66$.

Q2: (B) $5/11$ — Pairs with no red: $C(9,2) = 36$. So $P(\text{at least one red}) = 1 - 36/66 = 5/11$.

Q3: (C) $5/44$ — $(3/12) \times (5/11) = 15/132 = 5/44$.

Q4: (D) $4/9$ — $2 \times (4/12) \times (8/12) = 64/144 = 4/9$.

Q5: (A) $2/9$ — $P(\text{both green}) = C(5,2)/66 = 10/66$. $P(\text{at least one green}) = 1 - C(7,2)/66 = 45/66$. Conditional $= 10/45 = 2/9$.

Q6: (A) $47/66$ — Different-colour pairs $= 66 - 19 = 47$, so the probability is $47/66$.

PASSAGE 2 — VERTEX EVENTS (HANDSHAKES, DIAGONALS & COMMITTEES)

Q7: (B) 66 — $C(12,2) = 66$.

Q8: (D) 18 — Edges $= (12 \times 3)/2 = 18$, since each edge contributes to the degree of two vertices.

Q9: (C) 54 — Diagonals $= C(12,2) - 12 = 66 - 12 = 54$.

Q10: (A) 20 — $C(6,3) = 20$.

Q11: (B) 285 — $C(12,4) - C(10,4) = 495 - 210 = 285$.

Q12: (C) 45 — Both speakers are fixed, so choose the other 2 guests from 10: $C(10,2) = 45$.

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