

CLAT Community

daily
QT

SECTIONAL TEST

133

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.



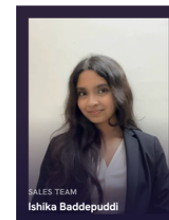
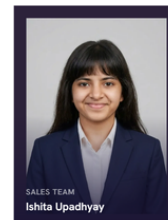
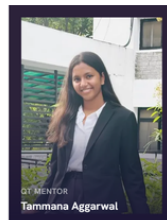
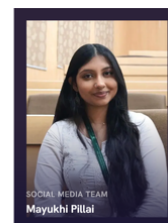
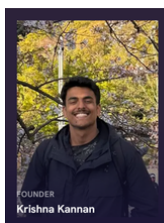
AND
MANY
MORE.

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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

Sunburst Event Management plans weddings and corporate functions, arranging guest seating, selecting menu combinations, and forming coordination teams for each event. For every function, planners choose a fixed number of dishes from a longer list to build a fixed-price menu, or select employees from the available staff pool to form an event-day team. Seating charts sometimes require arranging specific guests in a defined sequence of chairs on a stage or head table, particularly for formal ceremonies. The company also issues short alphanumeric guest passes for large events, generated under specific rules to prevent duplication. Study the following details about the menus, seating charts, teams, and guest passes being planned for this week's events, then answer the questions below.

1. For a wedding menu, planners must select 4 dishes from a list of 10 available starters. Find the number of ways this selection can be made.

- (A) 200
- (B) 210
- (C) 220
- (D) 240

2. For a formal ceremony, 6 special guests must be seated in a sequence of 6 designated chairs on the head table. Find the number of ways this can be done.

- (A) 600
- (B) 680
- (C) 720
- (D) 760

3. For an event-day team, planners must select 3 coordinators from a group of 5 available coordinators and 2 volunteers from a group of 6 available volunteers. Find the total number of ways to form this team.

- (A) 130
- (B) 140
- (C) 150

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(D) 160

4. In how many ways can 5 guests be seated in a row of 5 chairs if two particular guests must always sit next to each other?

(A) 36

(B) 40

(C) 48

(D) 60

5. From a group of 8 available staff members, including 3 who are certified event managers, a team of 5 must be formed such that at least 2 certified managers are included. Find the number of ways to form the team.

(A) 30

(B) 35

(C) 40

(D) 45

6. Guest passes for a large event consist of 2 letters chosen from A, B, C, D, E with no repetition, followed by 3 digits from 0-9 where digits may repeat. Find the total number of distinct guest passes possible.

(A) 15,000

(B) 18,000

(C) 20,000

(D) 25,000

Passage II

GreenTree Investment Bank offers fixed deposits and business loans to its customers at various compound interest rates, compounded annually or half-yearly depending on the product chosen. Customers frequently compare the maturity value of deposits held for different durations, and some depositors add a lump sum to an existing deposit, changing the amount on which interest continues to compound. Because compound interest causes the deposit or loan balance to grow at an increasing rate each period, the bank's advisors routinely calculate the year-wise growth of a sum, the effect of switching from annual to half-

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yearly compounding, and the difference between compound interest and simple interest earned over the same period for comparison purposes. Study the following details about this month's deposits and loans, then answer the questions below.

7. Find the compound interest on ₹20,000 for 2 years at 10% per annum, compounded annually.

- (A) ₹3,800
- (B) ₹4,000
- (C) ₹4,200
- (D) ₹4,400

8. Find the amount on ₹15,000 for 1.5 years at 20% per annum, compounded half-yearly.

- (A) ₹19,500
- (B) ₹19,650
- (C) ₹19,800
- (D) ₹19,965

9. Find the difference between the compound interest and the simple interest on ₹25,000 for 2 years at 8% per annum.

- (A) ₹120
- (B) ₹140
- (C) ₹160
- (D) ₹180

10. A sum invested at 5% per annum, compounded annually, amounts to ₹22,050 after 2 years. Find the sum invested.

- (A) ₹18,000
- (B) ₹19,000
- (C) ₹20,000
- (D) ₹21,000

11. A customer deposits ₹10,000 in a compound interest account at 10% per annum, compounded annually. At the end of the first year, she adds another ₹5,000 to the account,

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after which the combined balance continues to earn interest for the second year. Find the total amount in the account at the end of the second year.

- (A) ₹17,000
- (B) ₹17,400
- (C) ₹17,600
- (D) ₹17,800

12. A sum of ₹8,000 amounts to ₹9,680 in 2 years at compound interest, compounded annually. Find the rate of interest per annum.

- (A) 8%
- (B) 9%
- (C) 10%
- (D) 12%



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ANSWER KEY**Q1.**

Number of ways to select 4 dishes from 10 = ${}^{10}C_4 = 10!/(4! \times 6!) = 210$.

Answer → (B) 210

Q2.

Number of ways to seat 6 distinct guests in 6 chairs = $6! = 720$.

Answer → (C) 720

Q3.

Ways to select 3 coordinators from 5 = ${}^5C_3 = 10$.

Ways to select 2 volunteers from 6 = ${}^6C_2 = 15$.

Total ways to form the team = $10 \times 15 = 150$.

Answer → (C) 150

Q4.

Treat the two particular guests who must sit together as a single combined unit, giving 4 units in total (the pair plus the other 3 guests).

These 4 units can be arranged in $4! = 24$ ways.

Within the pair, the two guests can be arranged in 2 ways.

Total arrangements = $24 \times 2 = 48$.

Answer → (C) 48

Q5.

Case 1 (exactly 2 certified managers): ${}^3C_2 \times {}^5C_3 = 3 \times 10 = 30$.

Case 2 (exactly 3 certified managers): ${}^3C_3 \times {}^5C_2 = 1 \times 10 = 10$.

Total ways with at least 2 certified managers = $30 + 10 = 40$.

Answer → (C) 40

Q6.

The 2 letters (no repetition) can be arranged in ${}^5P_2 = 5 \times 4 = 20$ ways.

The 3 digits (repetition allowed) can be chosen in $10 \times 10 \times 10 = 1,000$ ways.

Total distinct guest passes = $20 \times 1,000 = 20,000$.

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Answer → (C) 20,000

Q7.

Amount = $20,000 \times (1.10)^2 = 20,000 \times 1.21 = ₹24,200$.

Compound interest = $₹24,200 - ₹20,000 = ₹4,200$.

Answer → (C) ₹4,200

Q8.

For half-yearly compounding at 20% p.a., the rate per half-year = 10%, and the number of half-year periods in 1.5 years = 3.

Amount = $15,000 \times (1.10)^3 = 15,000 \times 1.331 = ₹19,965$.

Answer → (D) ₹19,965

Q9.

Simple interest = $(25,000 \times 8 \times 2)/100 = ₹4,000$.

Compound interest = $25,000 \times [(1.08)^2 - 1] = 25,000 \times 0.1664 = ₹4,160$.

Difference = $₹4,160 - ₹4,000 = ₹160$.

Answer → (C) ₹160

Q10.

Let the sum invested be P. Then $P \times (1.05)^2 = 22,050$.

$P \times 1.1025 = 22,050$, so $P = 22,050/1.1025 = ₹20,000$.

Answer → (C) ₹20,000

Q11.

Amount at the end of year 1 = $10,000 \times 1.10 = ₹11,000$.

After adding ₹5,000, the new balance = $₹11,000 + ₹5,000 = ₹16,000$.

Amount at the end of year 2 = $16,000 \times 1.10 = ₹17,600$.

Answer → (C) ₹17,600

Q12.

Let the rate be r (as a decimal). Then $8,000 \times (1+r)^2 = 9,680$.

$(1+r)^2 = 9,680/8,000 = 1.21$, so $(1+r) = \sqrt{1.21} = 1.10$.

This gives $r = 0.10$, i.e., 10% per annum.

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Answer → (C) 10%



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