

CLAT Community

daily QT

SECTIONAL TEST

39

DAYS TO GO FOR **CLAT 2027**



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OUR RANKERS

1 in every 4 of CLAT Community's students
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SAHISHNA



PRANAV. S

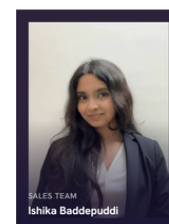
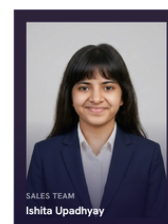
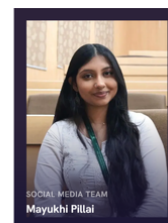
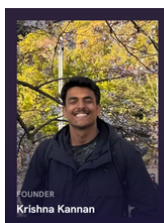
AND
MANY
MORE.

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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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DAILY QT

PASSAGE 1 — FIBONACCI LABS: RECURRENCE RELATIONS, RUNNING TOTALS & PARITY

Fibonacci Labs studies sequences in which each term is defined by the terms before it. The lab's current model is a recurrence with a first term of 2 and a second term of 5, where every later term equals the previous term plus twice the term before that. Written out, the sequence begins 2, 5, 9, 19, 37, and the team uses it to model how a small colony of organisms grows in two overlapping batches.

Researchers at the lab use three tools to study such a recurrence. The first is direct computation: each term is found by applying the rule to the two terms before it, and the team checks each result by recomputing it from a second starting point. The second tool is the running total, the sum of all terms up to a given position, which the team uses to estimate the cumulative size of the colony. The third tool is divisibility: because the batches grow at different rates, the lab tracks which terms are divisible by 3 and which are odd.

A key observation is that parity, meaning whether a term is odd or even, follows the parity of the previous term. Once the sequence reaches an odd term, it stays odd, since the recurrence adds the previous term to an even multiple of another term. Researchers therefore look for the first position at which a threshold is crossed. Unless stated otherwise, all terms are positive integers and every question refers to the sequence starting from the first term.

1. The sixth term of the sequence is:

- (A) 61
- (B) 75
- (C) 83
- (D) 67

2. The sum of the first six terms of the sequence is:

- (A) 147

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(B) 149

(C) 153

(D) 137

3. The smallest position n for which the n th term exceeds 200 is:

(A) 6

(B) 7

(C) 8

(D) 9

4. The number of terms among the first ten that are divisible by 3 is:

(A) 2

(B) 3

(C) 4

(D) 5

5. The number of odd terms among the first ten terms is:

(A) 7

(B) 8

(C) 10

(D) 9

6. The tenth term of the sequence is:

(A) 1195

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(B) 1139

(C) 1205

(D) 1151

PASSAGE 2 — HORIZON CAPITAL: PRESENT VALUE, NPV & IRR

Horizon Capital advises clients on investment decisions by comparing cash flows that arrive at different times. The firm's central tool is present value, which converts a future payment into today's money by discounting it at an annual rate. At a rate of 10% per year, a payment due one year from now is worth one-eleventh less than the same amount received today, and a payment due after two years is discounted by a factor of 1.1 twice.

Analysts at the firm use net present value to decide whether a project is worth undertaking. The net present value is the sum of all discounted future cash flows minus the amount invested today. A project with a positive net present value is preferred, while the internal rate of return is the discount rate at which the net present value becomes zero. The firm also compares immediate payments with delayed payments, since a larger sum promised later may still be worth less than a smaller sum received now.

Clients sometimes ask how a series of equal payments compares with a single lump sum. The present value of such a series is found by discounting each payment individually and adding the results. Unless stated otherwise, all rates are annual, all payments are made at the end of each year, and no taxes or fees apply to any transaction described in this passage.

7. At a discount rate of 10% per year, the present value of Rs 1331 due in three years is:

(A) Rs 1000

(B) Rs 1100

(C) Rs 909

(D) Rs 900

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8. An investment of Rs 1000 today returns Rs 1100 after one year. The internal rate of return of this investment is:

- (A) 8%
- (B) 10%
- (C) 12%
- (D) 11%

9. An investment of Rs 2000 today returns Rs 1210 at the end of year 1 and Rs 1210 at the end of year 2. At a discount rate of 10% per year, the net present value is:

- (A) Rs 90
- (B) Rs 110
- (C) Rs 100
- (D) Rs 80

10. The annual rate at which Rs 1000 grows to Rs 1210 in two years, compounded annually, is:

- (A) 9%
- (B) 11%
- (C) 10%
- (D) 12%

11. The difference between Rs 1000 received today and the present value of Rs 1200 received after two years, at 10% per year, is:

- (A) Rs 8.26
- (B) Rs -8.26

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(C) Rs 91.74

(D) Rs 120

12. The present value, at 10% per year, of Rs 100 received at the end of each of years 1, 2 and 3 is:

(A) Rs 240.00

(B) Rs 248.69

(C) Rs 300.00

(D) Rs 260.00



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ANSWER KEY**PASSAGE 1 — FIBONACCI LABS (RECURRENCE & PARITY)**

Q1: (B) 75 — Terms: 2, 5, 9, 19, 37, 75.

Q2: (A) 147 — $2 + 5 + 9 + 19 + 37 + 75 = 147$.

Q3: (C) 8 — Terms 7 and 8 are 149 and 299, so the first term above 200 is the 8th.

Q4: (B) 3 — Among the first ten terms, the 3rd, 6th and 9th terms (9, 75 and 597) are divisible by 3.

Q5: (D) 9 — Parity is inherited from the previous term, so once the 2nd term (5) is odd, every later term is odd. That gives 9 odd terms among the first ten.

Q6: (A) 1195 — $a_9 = a_8 + 2 \times a_7 = 299 + 298 = 597$. $a_{10} = a_9 + 2 \times a_8 = 597 + 598 = 1195$.

PASSAGE 2 — HORIZON CAPITAL (PRESENT VALUE, NPV & IRR)

Q7: (A) Rs 1000 — $1331 / 1.1^3 = 1000$.

Q8: (B) 10% — The rate that makes the net present value zero is $1100/1000 - 1 = 10\%$.

Q9: (C) Rs 100 — $1210/1.1 + 1210/1.21 = 1100 + 1000 = 2100$. $NPV = 2100 - 2000 = 100$.

Q10: (C) 10% — $(1210/1000)^{(1/2)} - 1 = 1.1 - 1 = 10\%$.

Q11: (A) Rs 8.26 — PV of Rs 1200 in two years at 10% = $1200/1.21 \approx 991.74$. Difference = $1000 - 991.74 = 8.26$.

Q12: (B) Rs 248.69 — $100/1.1 + 100/1.21 + 100/1.331 \approx 90.91 + 82.64 + 75.13 = 248.69$

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