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GATE 2021

GENERAL APTITUDE

धमाकेदार ट्रिक के साथ 🔥🔥

PROBABILITY-1



71



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GATE | EE (CE)



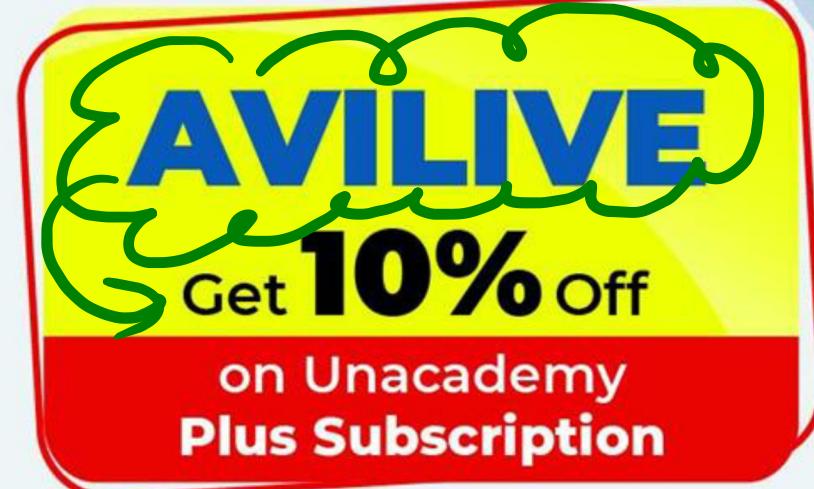
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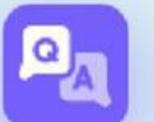
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GATE
2022
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Plus Batches Taken by Top Educators



Civil Engg

A card for a "Doubt Clearing Batch for GATE 2021 (Civil)". It features four Unacademy educators in a circular profile. Below the profiles are two language options: HINDI and ENGLISH. The card also includes the start date (Oct 19), the teacher (Anirudh Singh Rathore), and the number of participants (2 more).

BATCH

HINDI ENGLISH

Doubt Clearing Batch for GATE 2021 (Civil)

Started on Oct 19

Anirudh Singh Rathore and 2 more

A card for a "Spark ESE Prelims 2021 (Civil) - Batch A (English)". It features three Unacademy educators in a circular profile. Below the profiles is one language option: ENGLISH. The card includes the start date (Nov 20), the teacher (Praveen Kulkarni), and the number of participants (2 more).

BATCH

ENGLISH

Spark ESE Prelims 2021 (Civil) - Batch A (English)

Started on Nov 20

Praveen Kulkarni and 2 more

A card for a "Target ESE Prelims 2021 (Civil) - Batch C". It features four Unacademy educators in a circular profile. Below the profiles are two language options: ENGLISH and HINDI. The card includes the start date (Dec 7), the teacher (Anirudh Singh Rathore), and the number of participants (0 more).

BATCH

ENGLISH HINDI

Target ESE Prelims 2021 (Civil) - Batch C

Starts on Dec 7

Anirudh Singh Rathore

A card for a "GATE Rank Improvement Batch (Civil) 2021 - Part II". It features four Unacademy educators in a circular profile. Below the profiles is one language option: ENGLISH. The card includes the start date (Jul 1), the teacher (Chetan Saxena), and the number of participants (3 more).

BATCH

ENGLISH

GATE Rank Improvement Batch (Civil) 2021 - Part II

Started on Jul 1

Chetan Saxena and 3 more

A card for a "GATE Rank Improvement Batch (Civil) 2021 - Part I". It features three Unacademy educators in a circular profile. Below the profiles is one language option: ENGLISH. The card includes the start date (Jun 15), the teacher (Chetan Saxena), and the number of participants (2 more).

BATCH

ENGLISH

GATE Rank Improvement Batch (Civil) 2021 - Part I

Started on Jun 15

Chetan Saxena and 2 more



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ECE



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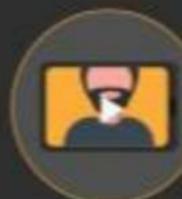
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Spatial Aptitude



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(All Branches)



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CAT 99.86%iler
(Quantitative)

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Quantitative Aptitude

Spatial Aptitude

Verbal Aptitude

Analytical Aptitude

- Paper folding and Cutting
- Shape Matching - Two Dimensional
- Visual Comparison - Two Dimensional
- Group Rotation - Two Dimensional
- Combining Two Dimensional Shapes
- Cube Views in Three Dimensions
- Cubes in Two and Three Dimensions
- Other Solids in Two and Three Dimensions
- Block Counting in Three Dimensions
- Two-Dimensional Mirror Reflections

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General Aptitude

Quantitative Aptitude

Analytical Aptitude

Verbal Aptitude

Spatial Aptitude

FREE!

- Venn Diagram
- Syllogism
- Series
- Analogy
- Puzzle



- Coding & Decoding
- Distance & Direction
- Blood Relation
- Seating Arrangements
- Clock & Calendar

AAE

Tejas Batch (Starting from **25th Jan**)

Faculty	Subject	Date (from)	Date (to)	Time
Ankit Goyal	Physics	25th Jan	18th Feb	12:00 PM
Pallav Gaur	Physics	25th Jan	13th Feb	2:30 PM
Avinash Singh	Quantitative + Reasoning + Maths	25th Jan	24th April	7:30 PM
Vishal Soni	Maths & Physics	1st Feb	24th April	5:00 PM
Saket Verma	Physics	15th Feb	3rd March	2:30 PM

Pattern

Total 10 Questions

1) Five Question
Each question 1 mark

2) Five Question
Each question 2 mark

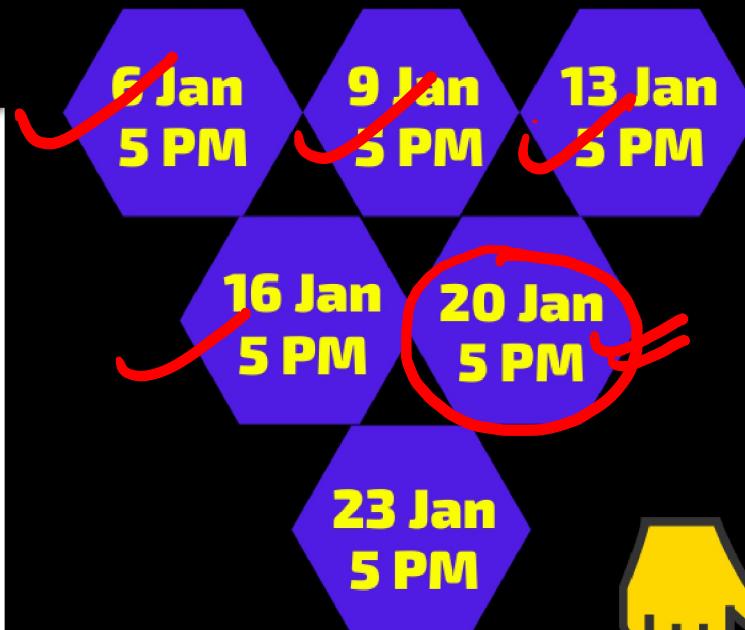
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Analytical Aptitude

- Venn Diagram
- Syllogism
- Series
- Coding & Decoding
- Clock & Calendar
- Distance & Direction
- Blood Relation
- Seating Arrangements
- Puzzle

FREE

Quantitative Aptitude

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- Pipes & Cisterns
- Ratio & Proportion
- Number System
- Sequence & Series
- Average
- Time, Speed & Distance
- Percentage
- Profit, Loss & Discount
- Allegation & Mixture
- Powers, exponents and logarithms
- Algebra
- Permutation & Combination
- Probability
- Data Interpretation
- Mensuration and geometry

Spatial Aptitude

- Shape Matching - Two Dimensional
- Visual Comparison – Two Dimensional
- Group Rotation – Two Dimensional
- Combining Two Dimensional Shapes
- Cube Views in Three Dimensions
- Cubes in Two and Three Dimensions
- Other Solids in Two and Three Dimensions
- Block Counting in Three Dimensions
- Two-Dimensional Mirror Reflections
- Paper folding and Cutting

SUPER

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Today's Class Agenda

► Basic Concept of Probability

S-6

S-6

1 2 3 4

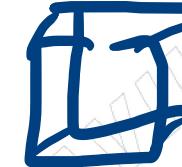
Probability

↳ How likely something is to happen

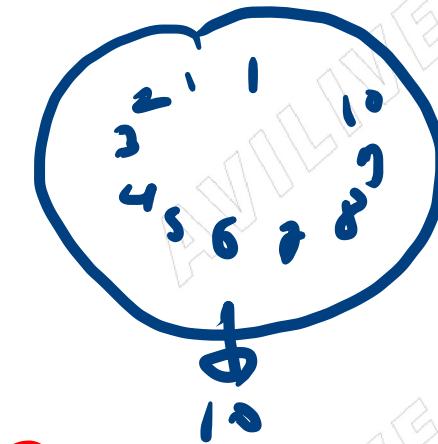
↳ *Isaac-1600*
Europe → Gambling



$$P_C >$$



$$P_0 > P$$



Fermat ✓
Pascal ✓
James
Bernoulli ✓
Laplace ✓

Laplace

Experiments

Deterministic Experiments

Random Experiments

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Deterministic Experiments

Result can be predicated before the experiment is conducted.

g

$$P(E) = 1$$

Random Experiments

The outcomes is not certain beforehand.

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Laplace

1812

$E \rightarrow$ Random Experiment

Bike ✓
Cycle ✓
Car ✓
→

$$P(E) = \frac{N(E)}{N(S)} = \frac{\text{Total no of ways event } E \text{ can occurs}}{\text{Total no of possible outcomes}}$$

large

= $\frac{1}{3}$

(1) $P(E) = \lim_{n \rightarrow \infty} \frac{n(E)}{n}$

Assumes that all outcomes are equally likely Event

Coin → H ✓
T ✓
→ Gain coin

Dice → 1 to 6
→ Gain dice

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E → Random Experiment → total 'n' outcome

$$\underline{P(E)} = \frac{\textcircled{m}}{\textcircled{n}}$$

$$P(\bar{E}) = \frac{(n-m)}{n}$$

$$P(\bar{E}) = 1 - \frac{m}{n} \Rightarrow P(\bar{E}) = 1 - P(E)$$

$(n-m) \rightarrow$ not favourable outcome

$P(E) = 1 - P(\bar{E})$
 ↗ Probability of occurs ↗ Probability of doesn't occurs

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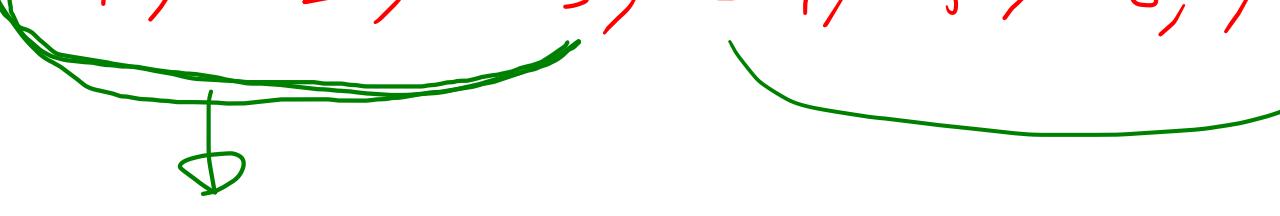
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$E \nrightarrow (S_1, S_2, S_3, S_4, S_5, S_6, S_7)$



A green curved arrow originates from the red expression $(S_1, S_2, S_3, S_4, S_5, S_6, S_7)$ and points downwards towards a small circle symbol.

Example-

A box contains 4 movie tickets of Wonder Women as A-1, A-2, A-3, A-4 and another box contain 6 movie ticket of Wonder Women numbered A-2, A-4, A-6, A-8, A-10, A-12

- A) A student draws one ticket from 1st box. The probability that the ticket bears the number A-2 is
- B) Another student draws one ticket from 2nd box. The probability that the ticket bears the number A-2 is
- C) One box is chosen and a ticket is drawn. The probability that the ticket bears the number A-2 is

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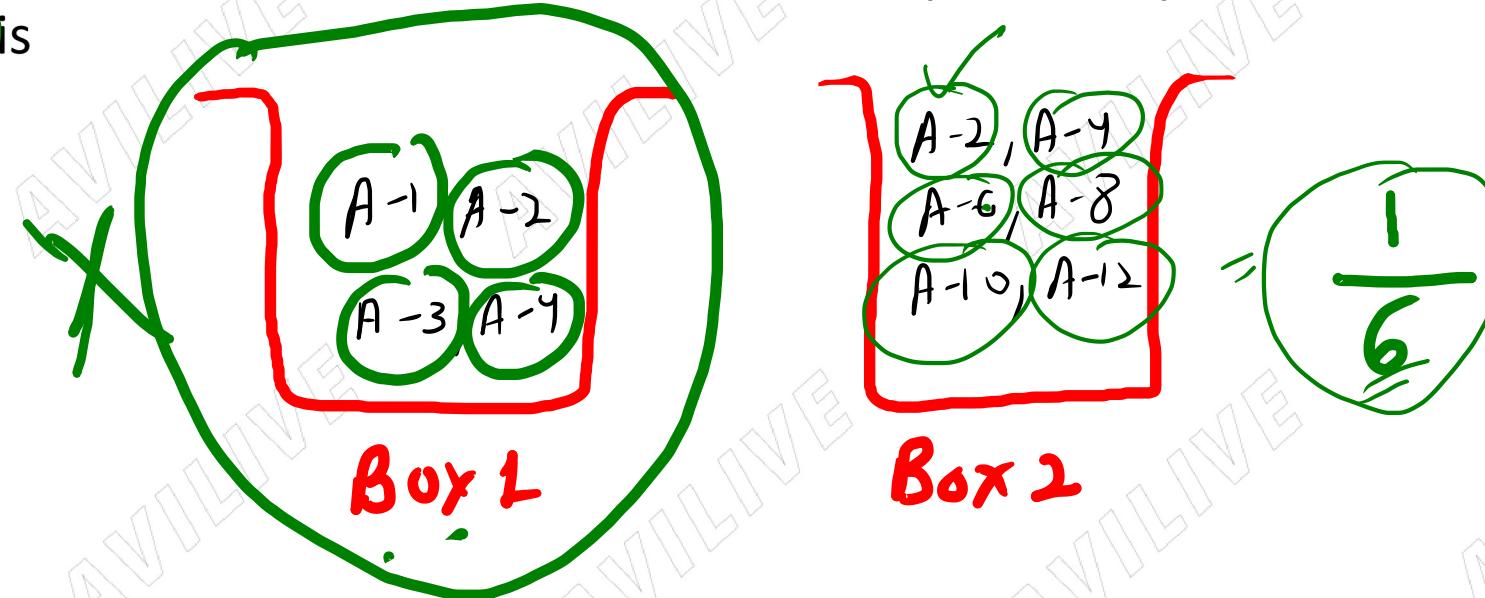
Example-

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- A)** A student draws one ticket from 1st box. The probability that the ticket bears the number A-2 is

$$\rightarrow \frac{1}{4}$$

- B)** Another student draws one ticket from 2nd box. The probability that the ticket bears the number A-2 is



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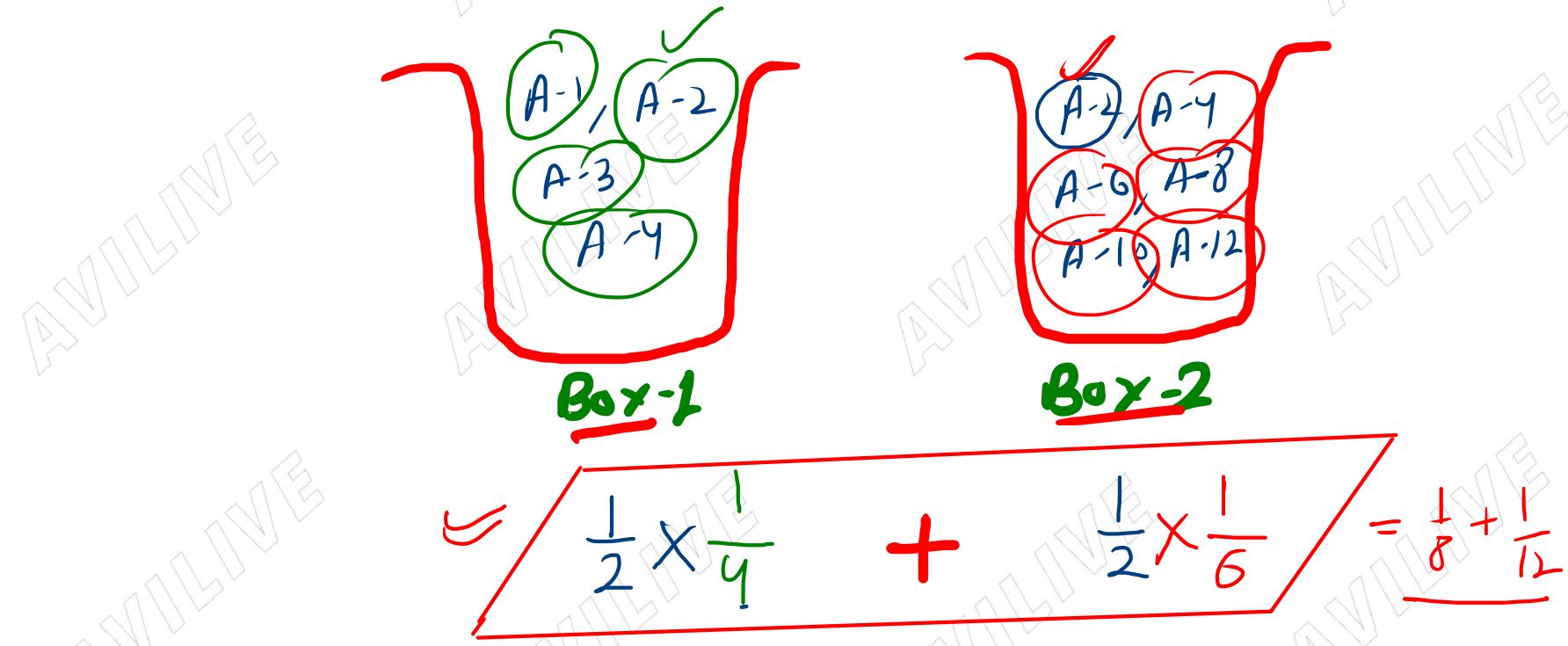
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Example-

A box contains 4 movie tickets of Wonder Women as A-1, A-2, A-3, A-4 and another box contain 6 movie ticket of Wonder Women numbered A-2, A-4, A-6, A-8, A-10, A-12

C) One box is chosen and a ticket is drawn. The probability that the ticket bears the number A-2 is



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Probability

Impossible Event
 $P(E) = 0$

Certain Event
 $P(E) = 1$

- Probability is the chance that something is the case or that an event will occur.
- Probability does not tell exactly what will happen, it is just a guide.
- Probability is represented as a pure number P in the range $0 \leq P \leq 1$

$$0 \leq P \leq 1$$

$$P = 20\% = \underline{\underline{.2}}$$

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Definitions related to probability

- ✓ Sample Space
- ✓ Event
- ✓ Compound Event
- ✓ Mutually Exclusive Events
- ✓ Independent Events
- ✓ Dependent Events

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- Venn Diagram
- Syllogism
- Series
- Analogy
- Puzzle

25

- Coding & Decoding
- Distance & Direction
- Blood Relation
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7 Yr Teaching Exp Cracked GATE Multiple Times CAT-99.86%(Quant) YouTuber(Channel-Avinash Sir Maths) Teaching isn't my job, it's my Passion

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Most Expected General Aptitude Questions for GATE - Part 10

HINDI GENERAL APTITUDE

Most Expected General Aptitude Questions for GATE - Part 9

Educator highlights

- ★ Worked at GATE ACADEMY
- ★ Cracked GATE Exam Multiple time
- 📍 Lives in Durg, Chhattisgarh, India
- ⌚ Unacademy Educator since 29th September, 2020
- ⌚ 107,652 live minutes taught in last 30 days

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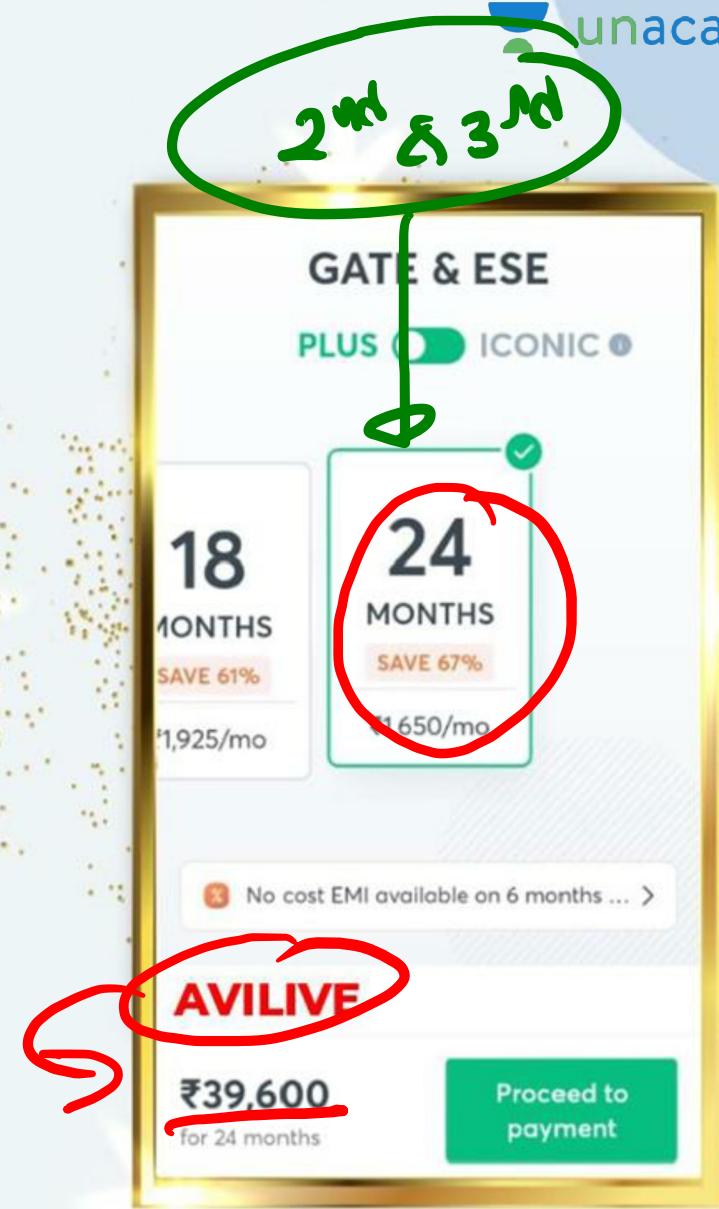
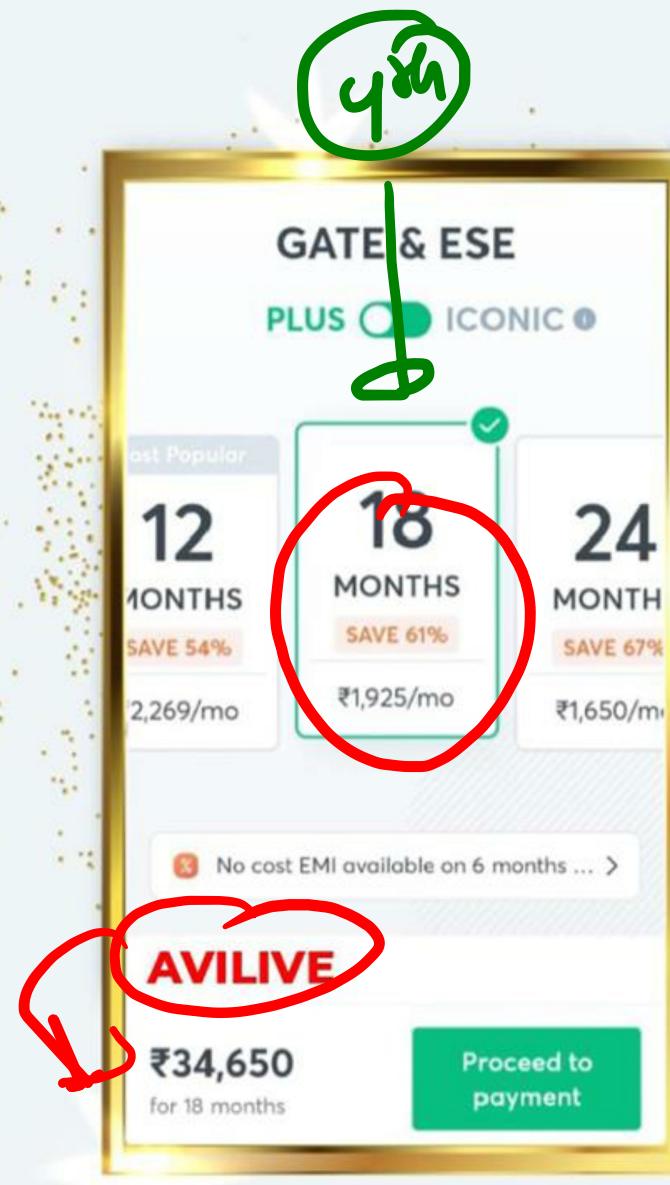
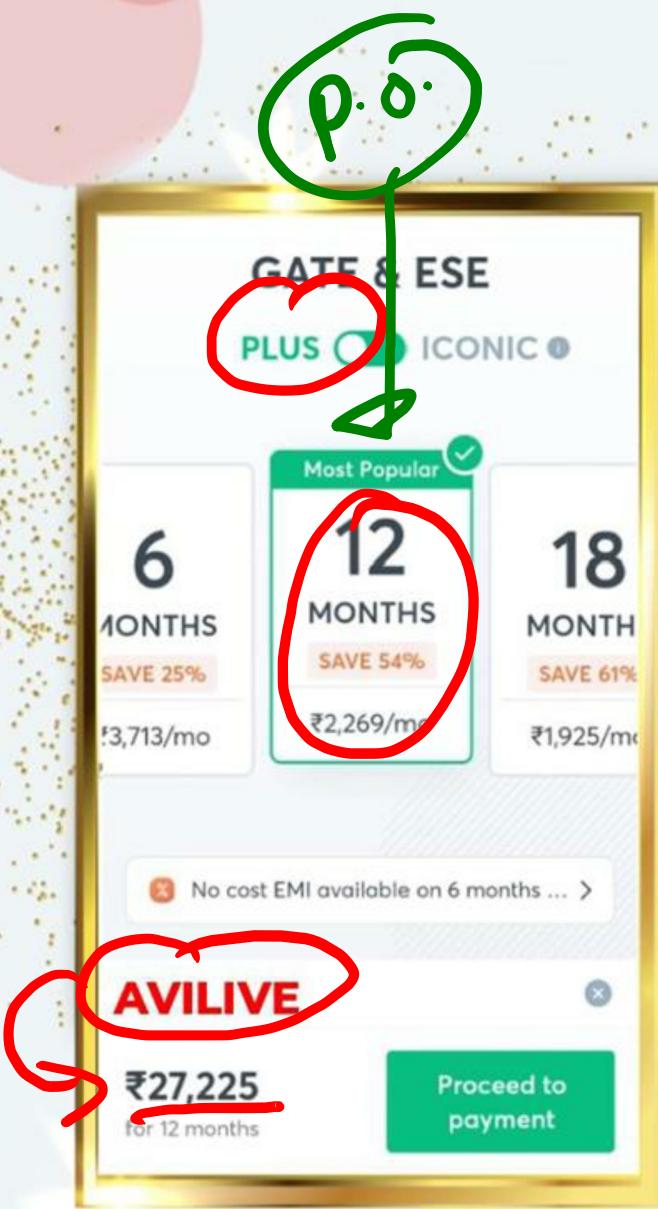
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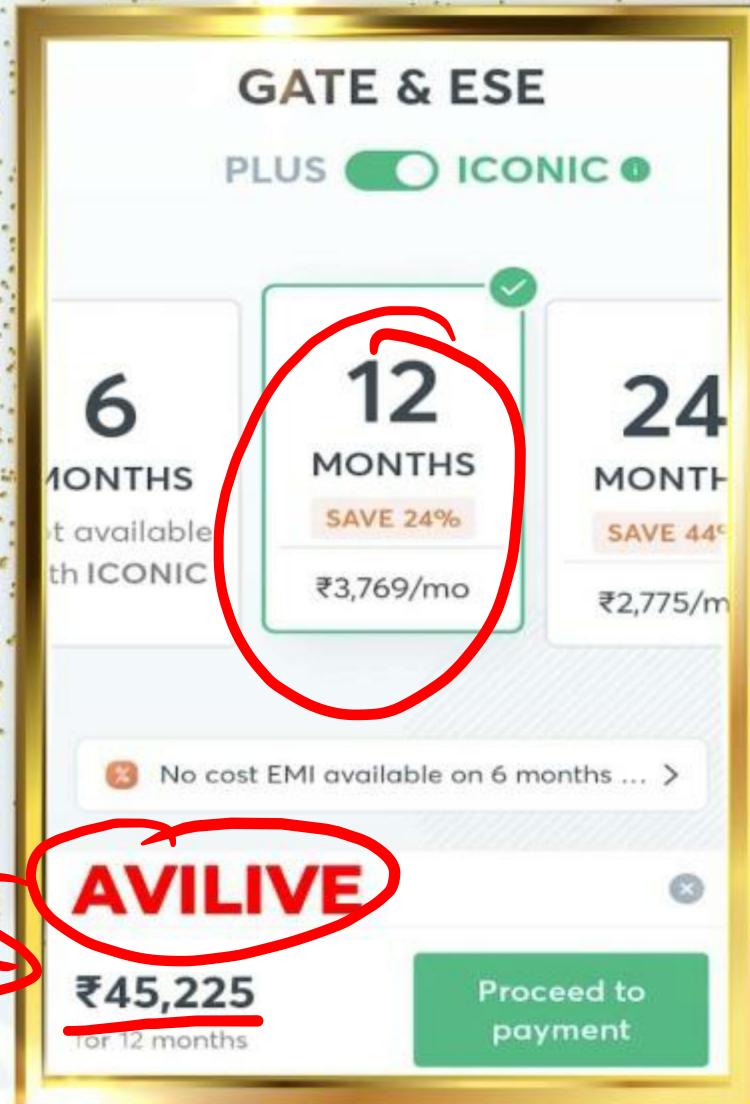
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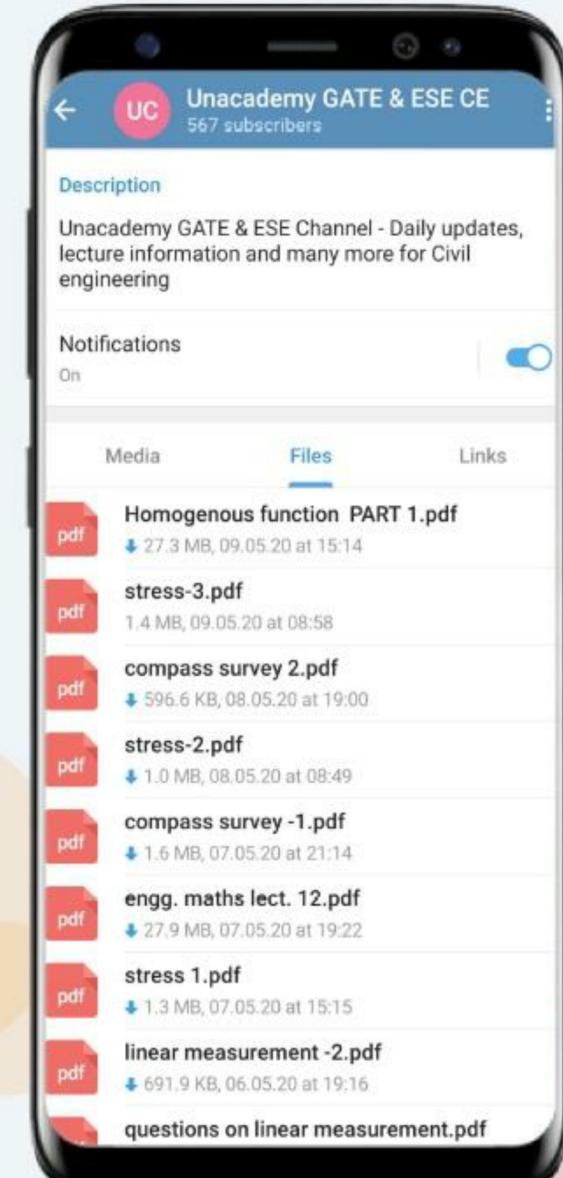


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S: 08 PM

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