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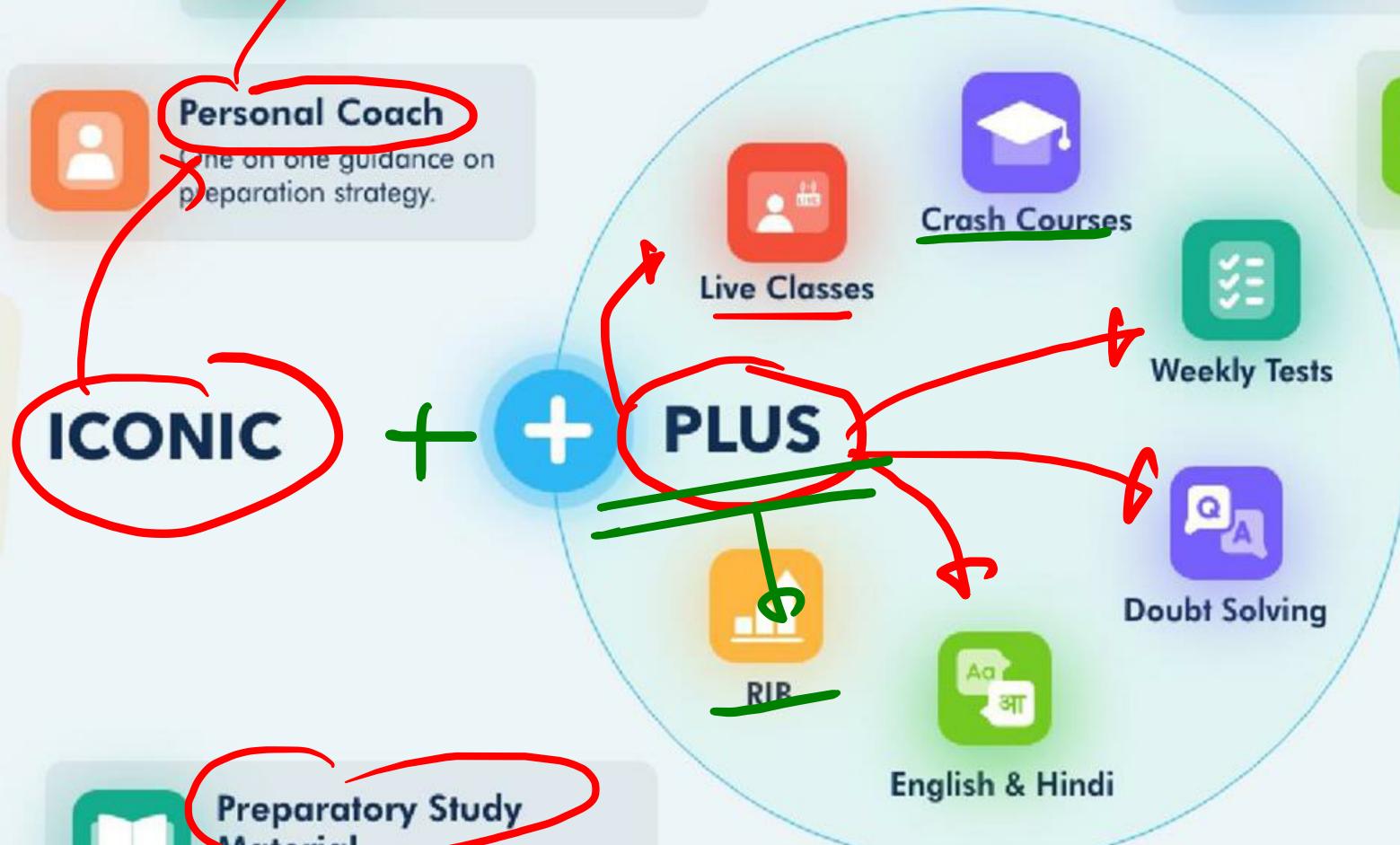


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GATE Rank Improvement Batch
(Civil) 2021 - Part II

Started on Jul 1

Chetan Saxena and 3 more



GATE Rank Improvement Batch
(Civil) 2021 - Part I

Started on Jun 15

Chetan Saxena and 2 more

Pattern

Total 10 Questions

1) Five Question
Each question 1 mark

2) Five Question
Each question 2 mark

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Pattern

Quantitative Aptitude – 4 Q

Analytical Aptitude – 4 Q

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160

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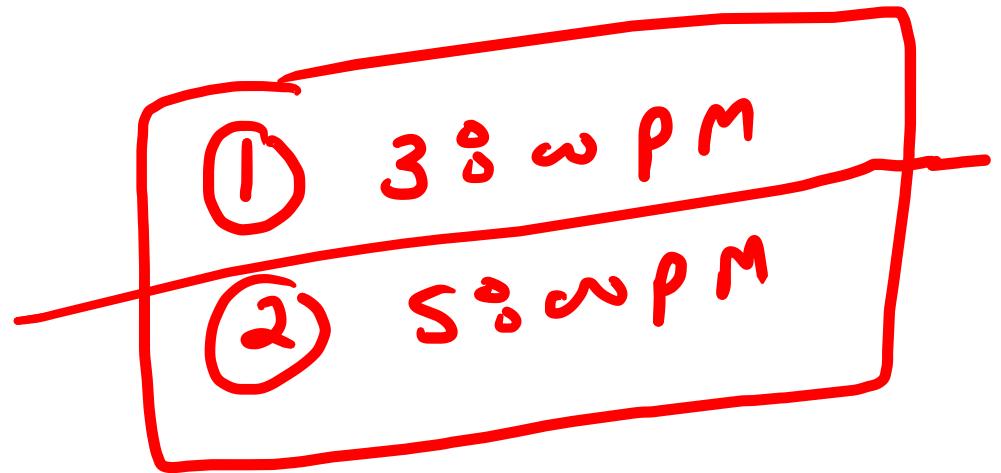
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(Quantitative)



Analytical Aptitude

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

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Quantitative Aptitude

- Time & Work
- 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



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Today's Class Agenda



➤ Question based on DI

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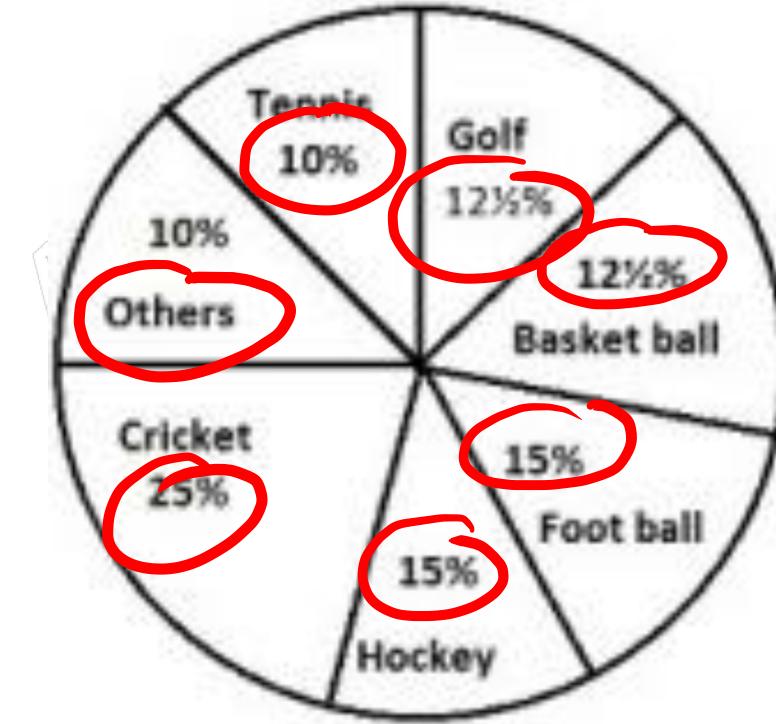
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1) The pie chart drawn below shows below the spending of a country on various sports during a particular year. Study the pie chart and answer the questions.

If the total amount spent on sports during the year was Rs. 1,20,00,000 how much was spent on basketball

- A) Rs. 950000
- B) Rs. 10,00,000
- C) Rs. 12,00,000
- D) Rs. 15,00,000



$$\begin{aligned} & \text{12.5\%} \rightarrow \\ & 10\% \rightarrow 12,00,000 \\ & 12.5\% + 15\% = 27.5\% \end{aligned}$$

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2) Refer the below data table and answer the question.

If the company has issued **six lakh** shares between

its five partners and if Basu offers to sell **15000**

of his shares to **Ejaz**, then **Ejaz** will have how many
shares?

- A) 300000 shares
- B) 315000 shares
- C) 330000 shares
- D) 285000 shares

Partners	Present % share
भागीदार	वर्तमान % हिस्सा
Anand / आनंद	5
Basu / बसु	10
Chinmay / चिन्मय	30
Dhiraj / धीरज	5
Ejaz / एजाज	50

Ejaz → $\frac{30,000}{15000}$
 $\frac{30,000}{15000} = \underline{\underline{31,500}}$

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3) Refer the below table and answer the following question.

How many cars were manufactured in the months of April and May?

- A) 690
- B) 1130
- C) 3660
- D) 950

	Cumulative production संचयी उत्पादन
January / जनवरी	300
February / फरवरी	500
March / मार्च	1080
April / अप्रैल	1630
May / मई	2030
June / जून	2320

2030

- 1080

950

J → 300

J + F → 500

J + F + M → 1080

J + F + Mar + Ap → 1630

J + F + Mar + Ap + May
2030

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Refer the below data table and answer the following Question.

	Cumulative production
January	330
February	580
March	1210
April	1800
May	2330
June	2870

$$\begin{array}{r} 2330 \\ -1210 \\ \hline 1120 \end{array}$$

How many cars were manufactured in the months of April and May?

- A) 1070
- B) 1120
- C) 1220
- D) 4130

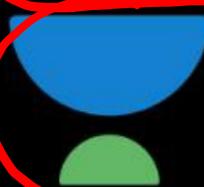
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General Aptitude

Quantitative Aptitude

Analytical Aptitude

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Spatial Aptitude

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- Venn Diagram
- Syllogism
- Series
- Analogy
- Puzzle

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

25

CATLIVE



Refer the below data table and answer the following Question.

Day of the week	Distance jogged (in kms)
Monday	0.5
Tuesday	3
Wednesday	0.5
Thursday	2.5
Friday	2
Saturday	3.5
Sunday	1

13 K

$$\begin{aligned}5 \text{ Km} &\rightarrow 400 \\1 \text{ Km} &\rightarrow 80 \\13 \text{ Km} &\rightarrow \underline{\underline{940}}\end{aligned}$$

If 400 calories burned by jogging 5 km, how many calories were burnt in the given week?

- A) 990 calories
- B) 1090 calories
- C) 1040 calories
- D) 940 calories

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Refer the below data table and answer the following Question.

Day of the week	Distance jogged (in kms)
Monday	4.5
Tuesday	0.5
Wednesday	1.5
Thursday	2.5
Friday	4
Saturday	4
Sunday	3.5

20.5 km

5km → 400

1 km → 80

20.5 km → 8×20.5

1640

If 400 calories are burned by jogging 5 km, how many calories were burnt in the given week?

- A) 1690 calories
- B) 1590 calories
- C) 1640 calories
- D) 1540 calories



The following table shows the number of children in each house of a society.

Number of children	Number of house	
0	5	0
1	14	14
2	10	20
3	3	9

What is the average number of children per house?

- A) 1.34 B) 1.59 C) 1.84 D) 1.09

$$\frac{0+14+20+9}{32}$$

$$\frac{\text{Total children}}{\text{Total house}}$$

$$= \frac{0+14+20+9}{32}$$

$$= \frac{43}{32}$$



Refer the below data table and answer the following Question.

	Boys	Girls
Medical	25	70
Engineering	75	35

$$= 110$$

What percent students who chose Engineering are girls?

A) 17.07

B) 33.33

C) 46.67

D) 31.82

$$\frac{G}{B+G} \times 100 = \left(\frac{35}{110} \times 100 \right) = \frac{350}{11} = 31.$$



Direction: Study the following table carefully and answer the question given below.

Marks (out of 50) obtained by three students A, B and C in five subjects in two periodical examination of each subject.

Subject	Student A		Student B		Student C	
	I	II	I	II	I	II
Math	40	30	30	20	30	35
Science	30	40	25	45	38	42
Hindi	35	25	33	27	35	40
English	45	47	42	43	45	25
Geo	25	28	30	28	26	28

Which of the student had highest average marks in Geography in all periodicals?

A) C

C) B

B) A

D) NOTA

26.5

29

27

27 27

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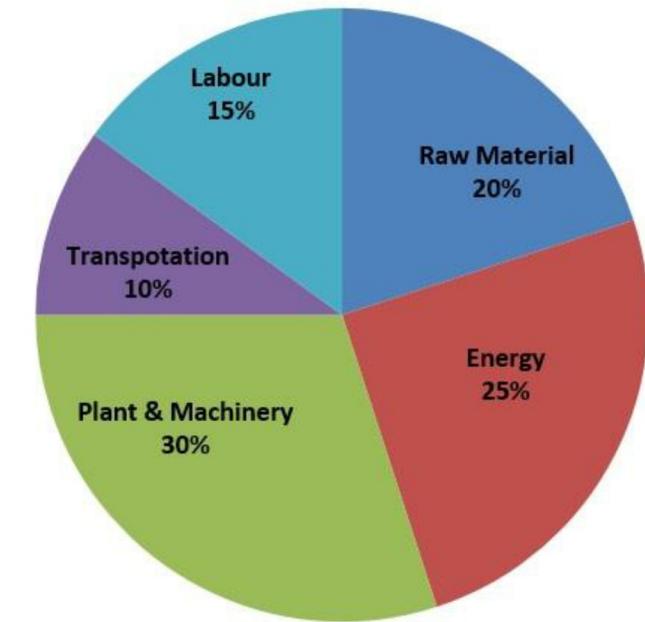
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1) A firm producing air purifiers sold 200 units in 2012. The following pie chart present the share of raw material, labour, energy, plant & machinery and transportation costs in the total manufacturing cost of the firm in 2012. The expenditure on labour in 2012 is ₹450000. In 2013, the raw material expenses increased by 30% and all other expenses increased by 20%. If the company registered a profit of ₹ 10 lakhs in 2012, at what price (in ₹) was each air purifier sold?

[GATE 2014, 2 MARKS (ME, EC)]



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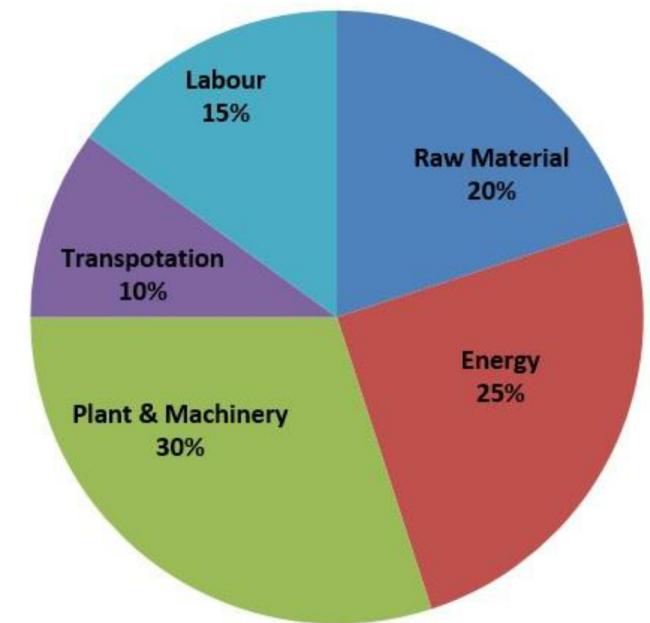
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2) A firm producing air purifiers sold 200 units in 2012. The following pie chart present the share of raw material, labour, energy, plant & machinery and transportation costs in the total manufacturing cost of the firm in 2012. The expenditure on labour in 2012 is ₹450000. In 2013, the raw material expenses increased by 30% and all other expenses increased by 20%. What is the percentage increase in total cost for the company in 2013?

[GATE 2014, 2 MARKS (ME, EC)]



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Pattern

Total 10 Questions

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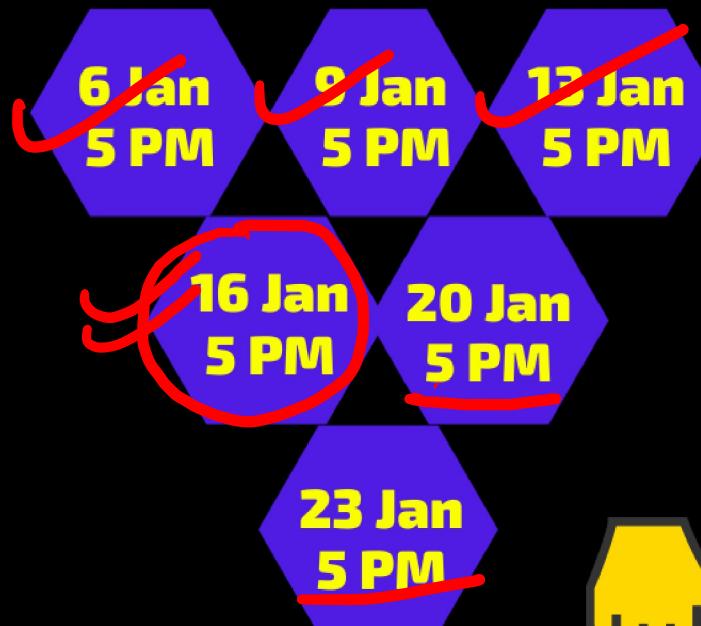
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Educator highlights

- ★ Worked at GATE ACADEMY
- ★ Cracked GATE Exam Multiple time
- 📍 Lives in Durg, Chhattisgarh, India
- ⌚ Unacademy Educator since 29th September, 2020
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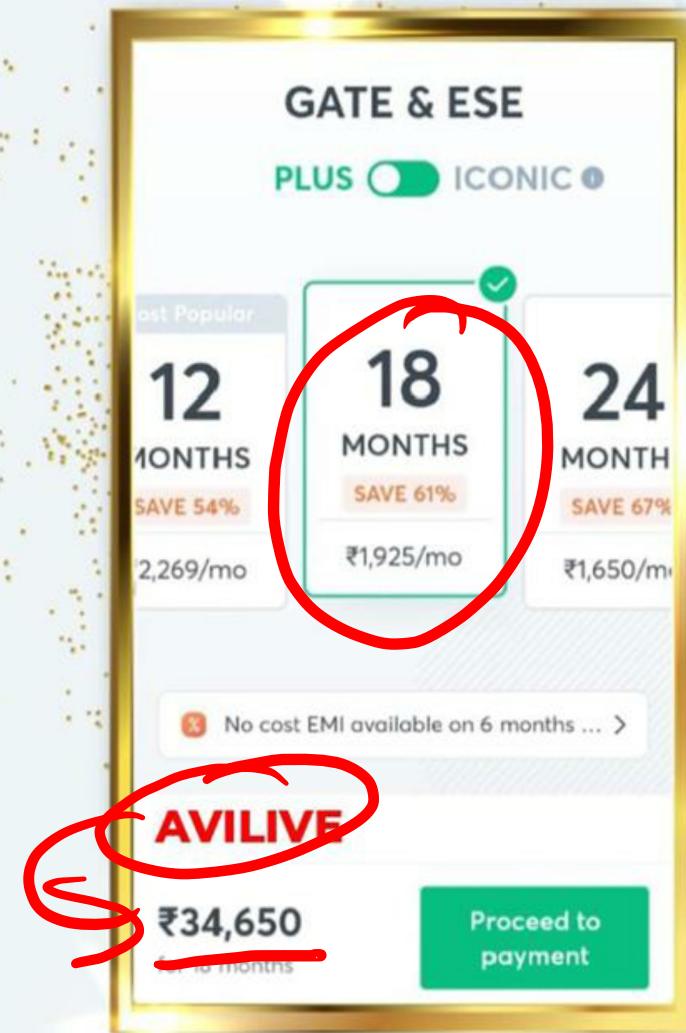
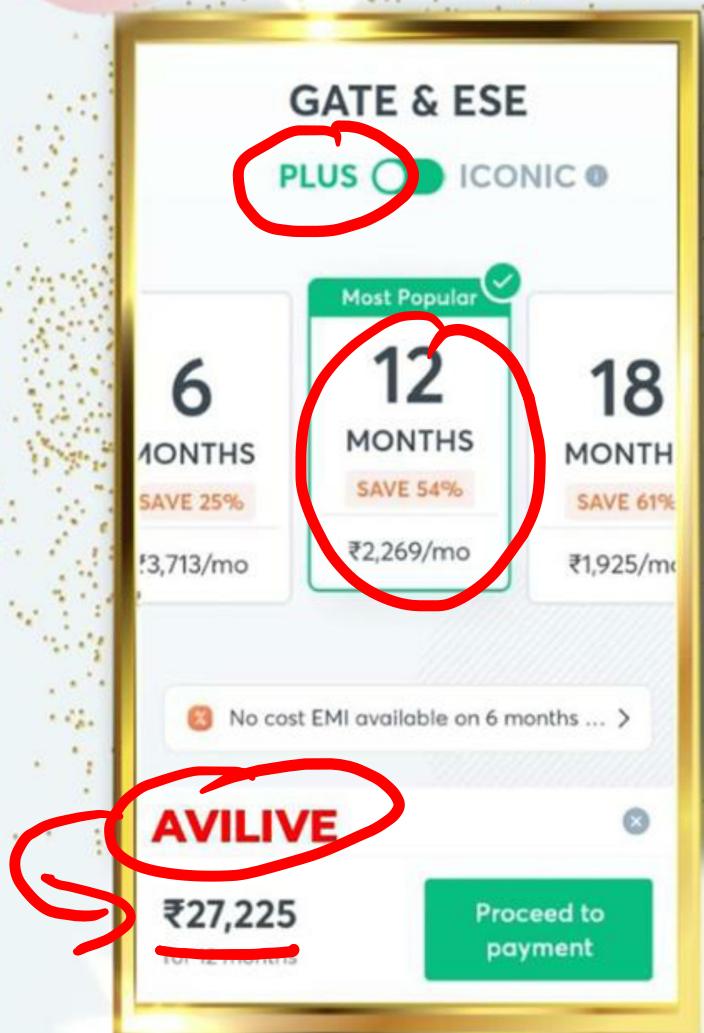
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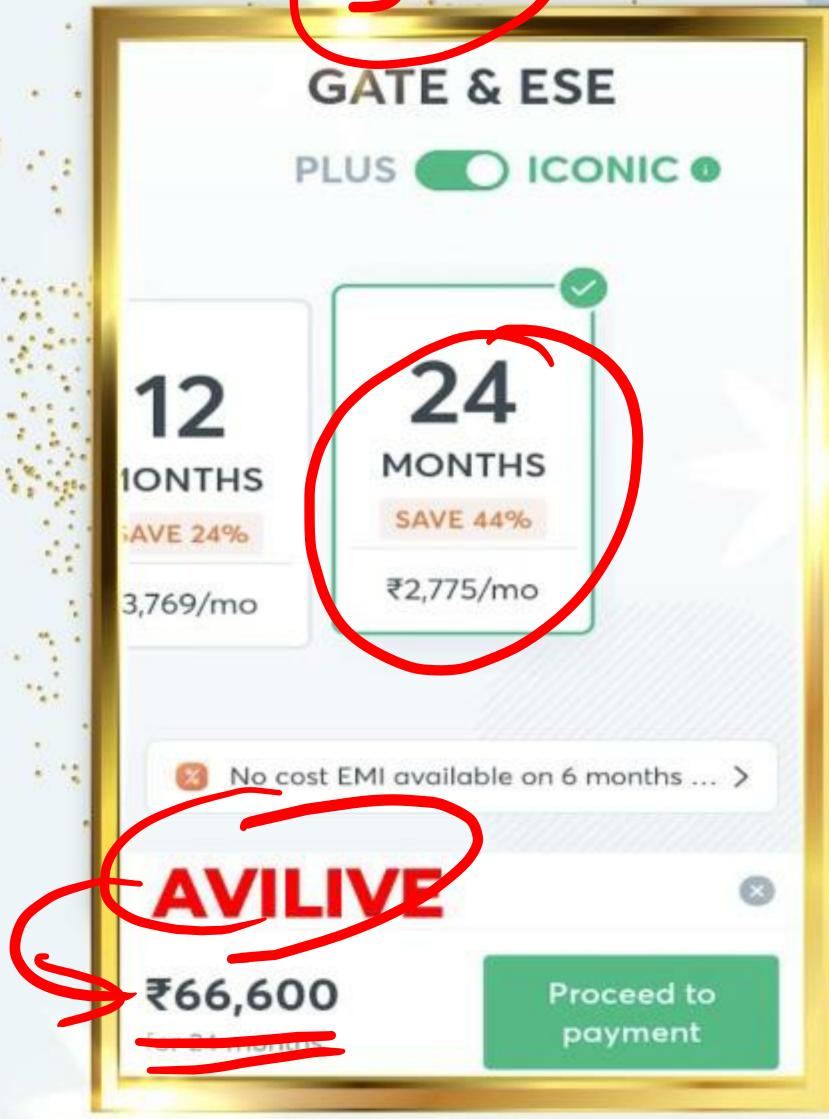
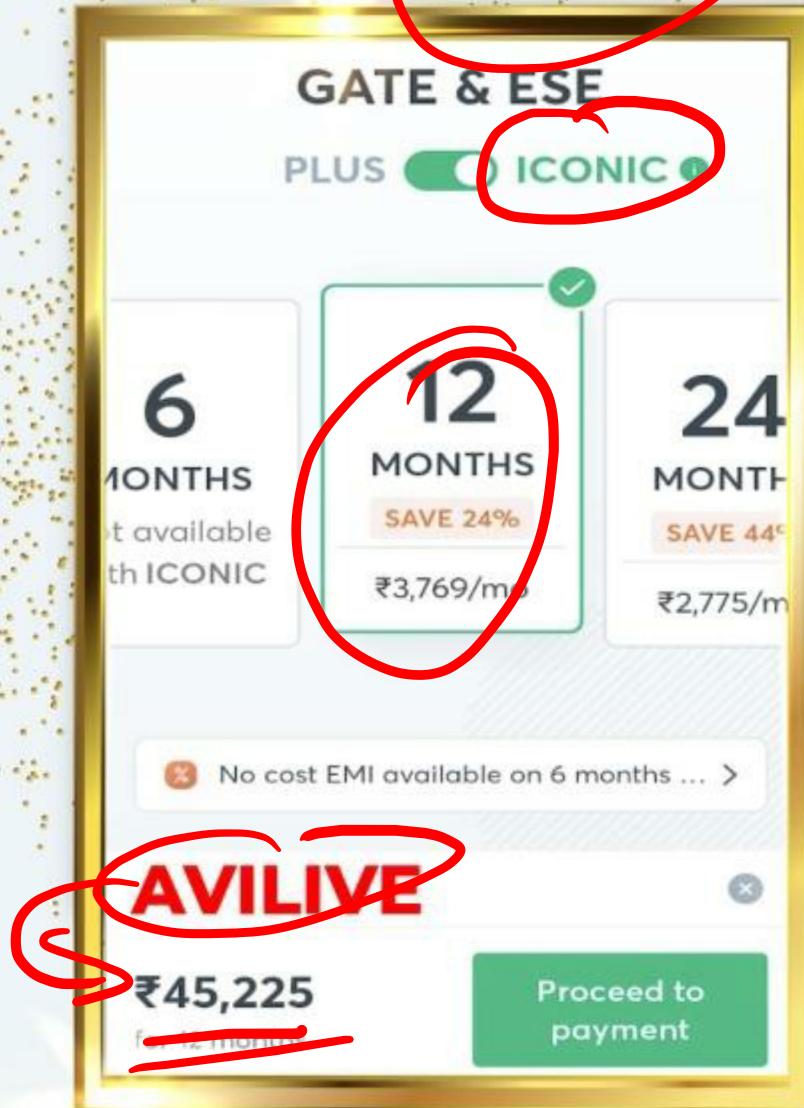
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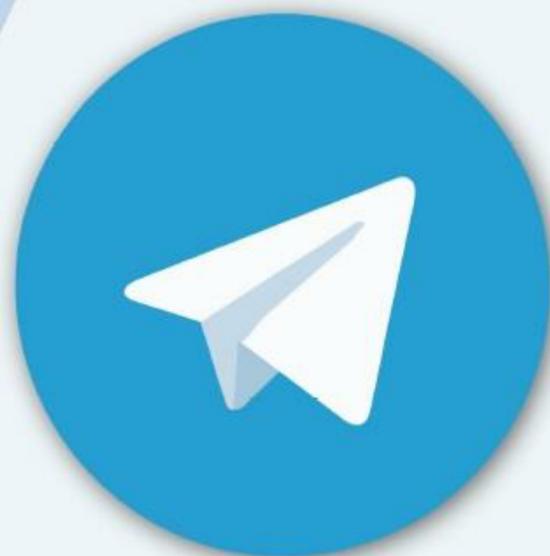


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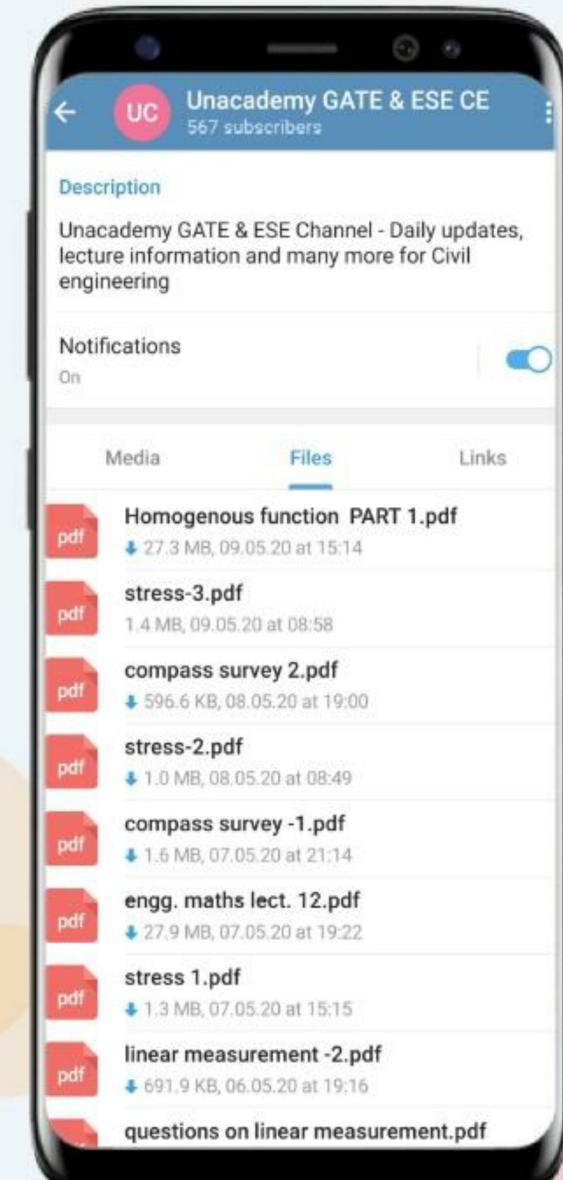
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