Welcome to the Quant Sir Comprehensive Guide – Your Trusted Partner for SSC CGL Tier I Success
Preparing for the SSC CGL Tier I exam takes more than just dedication—it requires a strategic approach, strong conceptual clarity, and sharp problem-solving skills. This guide is crafted to support your journey with an in-depth analysis of the **SSC CGL 2023 Quant Previous Year Paper - 19 July 2023 - Shift 3**, complete with accurate answer keys and detailed explanations.

At **Quant Sir**, we bring you the actual 2024 question paper along with clear, step-by-step solutions to help you grasp the exam pattern and master the techniques needed to tackle even the trickiest questions with confidence. This real exam-based practice not only familiarizes you with the question trends but also builds your speed and accuracy.

Whether you're a first-time candidate or someone looking to polish your preparation, this guide is designed to elevate your performance. With **Quant Sir**, you're not just working harder—you're working smarter.

SSC CGL 2023 Quant Previous Year Paper - Exam Pattern

Take a look at the exam pattern for the SSC CGL Tier I 2023 exam.

Tier I: Computer-Based Exam (Qualifying Nature)

Subject	No. of Questions	Maximum Marks	Duration
General Intelligence & Reasoning	25	50	60 minutes (80 min for PwD)
General Awareness	25	50	
Quantitative Aptitude	25	50	
English Comprehension	25	50	
Total	100	200	

SSC CGL 2023 Quant Previous Year Paper - Topicwise Weightage

The table below presents a topic-wise breakdown of the SSC CGL 2023 Quant Previous Year Paper - 19 July 2023 - Shift 3. It outlines the key focus areas along with the number of questions from each topic, offering valuable insights into the exam pattern and helping you tailor your preparation strategy more effectively.

Topic	Number of Questions
Arithmetic (includes %s, ratios, avg, SI/CI)	7
Algebra & Quadratics	1
Geometry & Mensuration	6
Number System	2
Data Interpretation	2
Speed, Time, Work	5
Trigonometry	2
Logical Reasoning / Ages	1

SSC CGL 2023 Quant Previous Year Paper - Tips to Solve

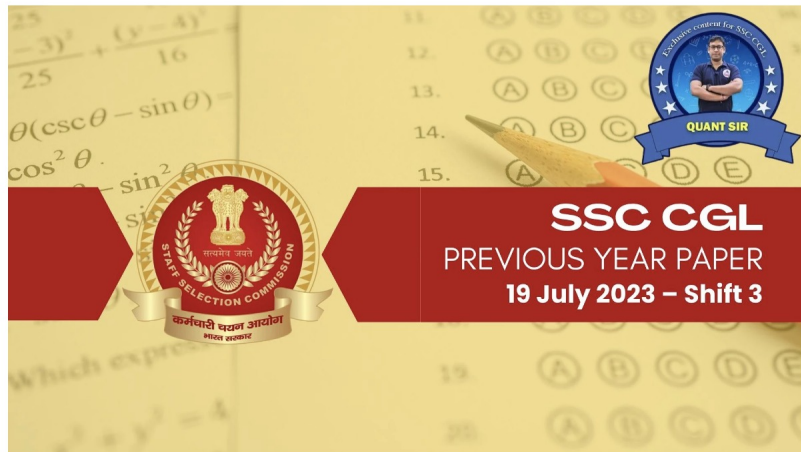Here are top tips for cracking the SSC CGL Quantitative Aptitude section:

1. **Read the Question Thoroughly:** Before jumping into calculations, take a moment to understand what's being asked. A clear grasp of the concept reduces the chances of careless mistakes.
2. **Play to Your Strengths First:** Begin the exam with the topics you're most confident in—like Simplification or Ratio & Proportion. This helps you gain momentum and save time early on.
3. **Master Time Allocation:** Stick to a time limit per question. If you find yourself stuck, move on and return later—don't let one tricky problem drain your valuable minutes.
4. **Use Smart Shortcuts:** Learn and apply quick tricks and formulas, especially for high-weightage areas like Percentages, Mensuration, and Profit & Loss, to boost speed without compromising accuracy.
5. **Prioritize Accuracy Alongside Speed:** Fast solving is important, but not at the cost of wrong answers. Estimate where possible and verify calculations when time permits.
6. **Sharpen Your Data Interpretation:** Practice reading charts, tables, and graphs efficiently. Focus on identifying patterns and extracting useful information quickly.
7. **Know Your Formulas Inside Out:** Have all key formulas for Geometry, Algebra, and Trigonometry at your fingertips—but also understand the logic behind them to apply them correctly.
8. **Tackle Word Problems Methodically:** Break down word problems step-by-step. Spot the relevant information and convert it into mathematical equations for a clearer approach.
9. **Utilize Spare Time for Review:** If you finish early, revisit skipped or doubtful questions. A quick review can help catch silly mistakes and improve your score.
10. **Stay Focused and Composed:** Keep calm under pressure. A relaxed and focused mind will help you think clearly

Consistent practice, smart strategy, and familiarity with the question pattern are your keys to success in the Quant section of the SSC CGL exam.

SSC CGL 2023 Quant Previous Year Paper - 19 July 2023 - Shift 3

Q:1 The sum of the two numbers is 98. The difference between the two numbers is 28. Find one of the two numbers.

1. 32

2. 62

3. 58

4. 35

Q:2 The speed of a boat down the stream is 125% of the speed in still water. If the boat takes 30 minutes to cover 20 km in still water, then how much time (in hours) will it take to cover 15 km upstream?

1. 3/4

2. 1/2

3. 1/4

4. 1

Q:3 Archana took a loan of ₹78,000 from a bank on 24th January 2012 at $8\frac{3}{4}$ % per annum simple interest and paid it back on 18th June 2012. Find the total amount paid by Archana. (Approximated to nearest integer)
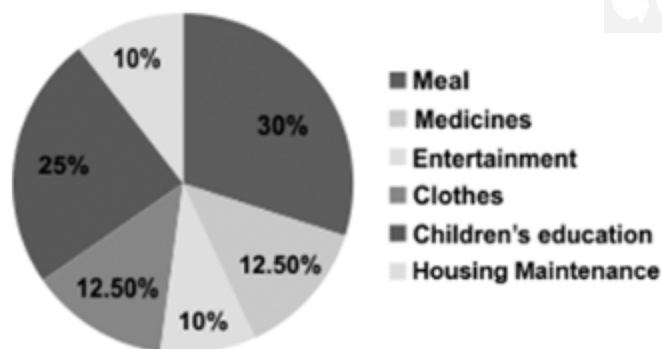
1. ₹80,741

2. ₹90,730

3. ₹85,733

4. ₹88,730

Q:4 Mother told her daughter, 'Seven years ago, I was seven times as old as you were then. Also, three years from now, I shall be three times as old as you will be'. Find the present ages of the mother and the daughter, respectively.

1. 45; 15

2. 40; 10

3. 42; 12

4. 50; 20

Q:5 The following pie chart shows the annual expenditure on different items. What is the minimum angle in the given pie chart?

1. 36°

2. 45°

3. 32°

4. 30°

Q:6 What is the number of common tangents that can be drawn to two circles that touch each other externally?

1. 2

2. 4

3. 3

4. 1

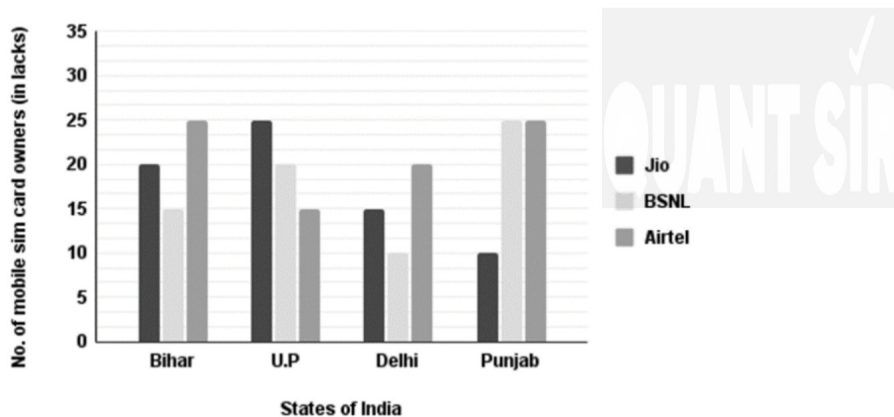**Q:7** Which of the numbers 9592450, 9592330, 9592885 and 9592741 is divisible by 11?

1. 9592885

2. 9592741

3. 9592450

4. 9592330

Q:8 The number of mobile sim-cards in 4 states/UT are given in the bar diagram. Study the diagram and answer the question.

In Delhi, the ratio of BSNL Sim-cards and Airtel Sim-cards sold is:

1. 1 : 2

2. 2 : 1

3. 3 : 2

4. 2 : 3

Q:9 For any acute angle θ, sin θ + sin^2 θ = 1 then the value of cos^2 θ + cos^4 θ = _____.

1. 0

2. 1

3. 2

4. -1

Q:10 Two persons started running on a circular track at a speed of 20 m/s and 30 m/s in opposite directions. If the circumference of the circular track is 100 m, find at how many distinct points they will cross each other.

1. 2

2. 3

3. 5

4. 10

Q:11 Susan can type 12 pages in 6 minutes. Mary can type 6 pages in 12 minutes. Working together, how many pages can they type in 32 minutes?

1. 80

2. 65

3. 70

4. 75

Q:12 R lends some money to S on which S pays ₹17,000 more to R. S lends the same money to T, on which T pays 8.5% more to S. What should be the minimum amount (in ₹) that S must borrow so that he does not incur any loss in the process?

1. 2,00,000

2. 2,25,000

3. 1,80,000

4. 1,70,000

Q:13 Work done by 8 men is completed in 10 days. The same work can be completed in 12 days when done by 10 women. How many days will it take to complete when 4 men and 4 women are employed to perform the same job?

1. 12

2. 6

3. 10

4. 8

title

Q:14 If $x^2 - 7x + 1 = 0$, and $0 < x < 1$, what is the value of $x^2 - 1/x^2$?

1. $21\sqrt{5}$

2. $-21\sqrt{5}$

3. $28\sqrt{5}$

4. $-28\sqrt{5}$

Q:15 The marked price of a geyser is ₹9,400 and the shopkeeper allows a discount 4% on it. Find the selling price of the geyser.

1. ₹9,024

2. ₹9,124

3. ₹9,324

4. ₹39,224

Q:16 In ₹150, B buys 10 pens for ₹8 each, 10 erasers for ₹5 each and some sharpeners for ₹4 each. What is the average price per item in ₹?

1. 8

2. 7

3. 10

4. 6

Q:17 10 women can do a work in 6 days and 6 men can do the same work in 5 days. If all these men and women work together, then how many days will they take to finish this work?

1. $2\frac{8}{11}$

2. $4\frac{6}{11}$

3. $1\frac{2}{11}$

4. $3\frac{4}{11}$

Q:18 If $\triangle ABC - \triangle PQR$, AB = 4 cm, PQ = 6 cm, QR = 9 cm and RP = 12 cm, then find the perimeter of $\triangle ABC$.

1. 18 cm

2. 16 cm

3. 20 cm

4. 22 cm

Q:19 The third proportion between 25 and 35 is:

1. 35

2. 49

3. 40

4. 25

Q:20 The salaries of a father, mother, and daughter are in the ratio 2 : 3: 5. What will be the ratio of their salaries if there was an increase of 15%, 10%, and 20%, respectively?

1. 19 : 13 : 15

2. 23 : 33 : 60

3. 17 : 37 : 50

4. 17 : 18 : 25

Q:21 To have a surface area of 9π square units of a ball, what should be the radius (in units) of the ball?

1. 2.5

2. 2

3. 1.5

4. 3

Q:22 The area of the sector of a circle (in cm^2) of radius 7 cm and central angle 60° is: (Take π = 22/7)

1. 77/2

2. 77

3. 77/3

4. 77/4

Q:23 If 65% of 350 - ?% of 250 + 40% of 120 = 158, then find the value of '?'.

1. 57

2. 63

3. 47

4. 54

Q:24 If 2 cot x = 5, then what is $\dfrac{2cosx - sinx}{2cosx + sinx}$ equal to?

1. 3/4

2. 1/3

3. 5/6

4. 2/3

Q:25 If in ΔABC and ΔDEF, $\dfrac{AB}{DE} = \dfrac{BC}{FD}$, then they will be similar when:

1. ∠A = ∠D

2. ∠B = ∠E

3. ∠A = ∠F

4. ∠B = ∠D

SSC CGL 2023 Quant Previous Year Paper - Answer Key

You can check your score for this test here.

1. (4)	2. (2)	3. (1)	4. (3)	5. (1)
6. (3)	7. (4)	8. (1)	9. (2)	10. (3)
11. (1)	12. (1)	13. (1)	14. (2)	15. (1)
16. (4)	17. (1)	18. (1)	19. (2)	20. (2)
21. (3)	22. (3)	23. (3)	24. (4)	25. (4)

Each question is worth 2 marks. Here's how to interpret your score:

• Scored above 45? Excellent work! You're well on your way to cracking the exam—keep up the momentum.
• Scored between 35 and 45? A strong effort! You're on the right track. Stay focused and push for even better results.
• Scored below 30? Don't be discouraged. Use this as a chance to pinpoint weak areas and direct your efforts where they're needed most.

To improve further, make sure to review the detailed solutions we've provided. They'll help you understand the right methods and enhance your problem-solving accuracy.

Stay consistent in your preparation and focus on time management techniques to maximize your performance on exam day.

Keep visiting Quant Sir for more SSC CGL 2023 papers, complete with answer keys and expert explanations, to take your preparation to the next level.