



Welcome to Quant Sir's Ultimate Guide – Your Trusted Partner for SSC CGL Tier I Success

Cracking the **SSC CGL Tier I** exam takes more than just hard work—it requires a well-planned strategy, a strong grasp of concepts, and sharp problem-solving abilities. This guide is designed to be your go-to resource, offering a comprehensive analysis of the **SSC CGL 2023 Quant Previous Year Paper - 18 July 2023 - Shift 2**, along with accurate answer keys and step-by-step solutions.

At **Quant Sir**, we go beyond theory. We provide the actual 2023 question paper along with thoroughly explained solutions, helping you understand the exam pattern, question trends, and techniques needed to approach even the trickiest problems with confidence. Practicing with real exam-level questions improves your speed, accuracy, and overall readiness.

Whether you're a first-time aspirant or a returning candidate looking to fine-tune your preparation, this guide is carefully crafted to help you level up. With Quant Sir by your side, you're not just studying hard—you're preparing smart, focused, and exam-ready.

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

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 detailed topic-wise breakdown of the SSC CGL 2023 Quant Previous Year Paper - 18 July 2023 - Shift 2. It outlines the key focus areas along with the number of questions asked from each topic, giving you clear insights into the exam's pattern. Use this analysis to fine-tune your preparation strategy and prioritize the topics that carry the most weight in the exam.

Topic	Weightage
Arithmetic	6
Algebra & Identities	2
Geometry / Mensuration	4
Trigonometry	4
Time & Work	4
Speed & Distance	2
Profit/Loss/Discount	2
Ratio/Mixture	2
Number System	3
Data Interpretation	1
Statistics	1

SSC CGL 2023 Quant Previous Year Paper - Tips to Solve

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



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1. **Read the Question Carefully:** Avoid jumping straight into calculations. Take a moment to fully understand what the question is asking. A clear grasp of the problem helps prevent silly mistakes and misinterpretation.
2. **Play to Your Strengths First:** Begin with the topics you're most comfortable with—like Simplification, Averages, or Ratio & Proportion. This not only saves time but also builds early momentum and confidence.
3. **Use Time Strategically:** Set a time limit per question. If you get stuck, skip it and come back later. Don't let one tough question eat into the time meant for others.
4. **Apply Smart Shortcuts and Tricks:** Familiarize yourself with time-saving techniques, especially for topics like Percentages, Profit & Loss, and Mensuration. These shortcuts can help you solve questions faster without sacrificing accuracy.
5. **Balance Speed with Accuracy:** While speed is important, accuracy is what earns you marks. Make quick approximations when needed, but always verify your final answer to minimize negative marking.



Consistency, smart strategy, and a clear understanding of the exam pattern are your greatest tools for mastering the Quant section of SSC CGL.

SSC CGL 2023 Quant Previous Year Paper - 18 July 2023 - Shift 2

Q:1 The cost of 32 pens and 12 pencils is ₹790. What is the total cost (in ₹) of 8 pens and 3 pencils together?

1. 200.5
2. 197.5
3. 180.5
4. 220.5



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Q:2 The perimeter of an equilateral triangle is 48 cm. Find its area (in cm^2)

1. $81\sqrt{3}$
2. $8\sqrt{3}$
3. $25\sqrt{3}$
4. $64\sqrt{3}$

Q:3 To go a distance of 144 upstream, a rower takes 12 hours while it takes her only 9 hours to row the same distance downstream. What is the speed of the stream?

1. 3 km/h
2. 1 km/h
3. 1.5 km/h
4. 2 km/h



Q:4 A and B can do a piece of work in 5 days and 10 days, respectively. They began the work together, but A left after some days and B finished the remaining work in 8 days. After how many days did A leave?

1. $3\frac{1}{8}$
2. $5\frac{1}{8}$
3. $6\frac{1}{8}$
4. $\frac{2}{3}$

Q:5 If $\sin A = -3/5$, A lies in III quadrant, the value of $\sec A$ is:

1. $-4/5$
2. $-5/4$
3. $-3/4$
4. $3/4$



Q:6 Raja and Rocky together can complete painting work in 5 days. Together, they both start painting, but after 2 days, Rocky falls sick and leaves the work. If Raja completes the remaining painting in 4 days, find the number of days in which Rocky alone can do the work.

1. 12 days
2. 15 days
3. 20 days
4. 10 days

Q:7 The difference (in Rs) between a discount of 35% on Rs 3,600 and two successive discounts of 30% and 5% on the same amount is:

1. 54
2. 78
3. 82
4. 52

Q:8 If $(a + b + c) = 19$, and $(a^2 + b^2 + c^2) = 155$, find the value of $(a - b)^2 + (b - c)^2 + (c - a)^2$.

1. 104
2. 108
3. 100
4. 98

Q:9 In a factory, 48% of the number of male workers is equal to two-thirds of the number of female workers. What is the ratio of the number of males to that of the females in the factory?

1. 25 : 12
2. 12 : 25
3. 18 : 25



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4. 25 : 18

Q:10 Study the following bar chart and answer the question.



Find the percentage increase of sales of XYZ phones from 2019 to 2020? (Rounded up to 2 decimal places)

1. 122.22 Percent
2. 110.11 Percent
3. 119.19 Percent
4. 121.89 Percent

Q:11 If $x - \frac{1}{x} = -6$, what will be the value of $x^5 - \frac{1}{x^5}$?

1. - 8898
2. - 8896
3. - 8886
4. - 8892

Q:12 If two qualities of pulses 'X' and 'Y' of prices ₹100 and ₹150 per kg are mixed in the ratio 7 : 20, then what is the price (in ₹) of this mixture of pulses (correct to the nearest Rupees)?



1. 137
2. 135
3. 134
4. 136

Q:13 A and B alone can do a piece of work in 4 and 9 days, respectively. In how many days will the work be completed, if they both work on alternate days, starting with B?

1. $5\frac{1}{3}$
2. $5\frac{2}{3}$
3. 5
4. $5\frac{1}{4}$



Q:14 Amar can complete a work in 15 days and Prem in 12 days. Starting with Amar, they work on alternate days. In how many days will the work be completed?

1. $13\frac{2}{5}$
2. $12\frac{1}{6}$
3. $13\frac{1}{2}$
4. 13

Q:15 Which of the following numbers is divisible by 36?

1. 47502
2. 29412
3. 54732
4. 87064

Q:16 A policeman follows a thief who is 600 m ahead of the policeman. If the policeman and the thief run at speeds of 10 km/h and 8 km/h, respectively, in how much time (in minutes), will the policeman catch the thief?



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1. 16
2. 14
3. 18
4. 12

Q:17 If $405 : y :: y : 125$, and $y > 0$, then find the value of y .

1. 225
2. 205
3. 215
4. 235

Q:18 Simplify the following:

$$\sin 2x + 2 \sin 4x + \sin 6x$$

1. $4 \cos^2 x \sin 4x$
2. $4 \cos^2 x \sin x$
3. $2 \cos^2 x \sin 4x$
4. $4 \sin^2 x \sin 4x$

Q:19 Which number among 24963, 24973, 24983 and 24993 is divisible by 7?

1. 24973
2. 24983
3. 24963
4. 24993

Q:20 The percentage profit earned by selling an article for ₹2,000 is the same as the percentage loss incurred by selling the same article for ₹1,200. At what price should that article be sold to make a profit of 20%?



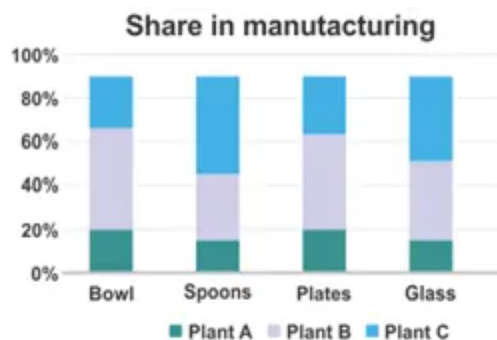
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1. ₹2,000
2. ₹1,800
3. ₹1,920
4. ₹1,840

Q:21 The value of $(1/\sin\theta + 1/\tan\theta)(1/\sin\theta - 1/\tan\theta)$ is:

1. 0
2. 2
3. 3
4. 1

Q:22 In a factory, utensils are manufactured in three plants, plant A, B and C. How many plates are manufactured by plant B if total plates are 3260?



1. 1467
2. 1304
3. 1254
4. 1141

Q:23 The ratio of the length of each equal side and the third side of an isosceles triangle is 3 : 5. If the area of the triangle is $30\sqrt{11} \text{ cm}^2$, then the length of the third side (in cm) is:



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1. $10\sqrt{6}$
2. $5\sqrt{6}$
3. $13\sqrt{6}$
4. $11\sqrt{6}$

Q:24 If $\sec\theta + \tan\theta = 5$, then find the value of $\tan\theta$.

1. $5/12$
2. $13/5$
3. $13/3$
4. $12/5$

Q:25 If the areas of two similar triangles are in the ratio $196 : 625$, what would be the ratio of the corresponding sides?

1. $14 : 25$
2. $13 : 20$
3. $14 : 20$
4. $13 : 25$

SSC CGL 2023 Quant Previous Year Paper - Answer Key

You can check your score for this test here.

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



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Each question is worth 2 marks. Here's how to assess your performance:

- Scored above 45? Excellent work! You're well on track to ace the exam. Keep up the focused practice to maintain your edge.
- Scored between 35 and 45? Good job! You've built a solid foundation. Continue working consistently and focus on fine-tuning your weaker areas to boost your score further.
- Scored below 30? Don't lose heart. Treat this as a learning opportunity—identify where you're struggling and direct your efforts toward strengthening those topics.

To enhance your preparation, make sure to go through the detailed solutions provided. They will not only show you the right approach but also help sharpen your accuracy and speed.

Keep practicing regularly, manage your time wisely, and stay focused. These habits will significantly increase your chances of success on exam day.

For more SSC CGL 2023 question papers, answer keys, and expert solutions, stay connected with **Quant Sir**—your go-to platform for smart, result-driven preparation.

