



Welcome to the Quant Sir Comprehensive Guide – Your Companion for SSC CGL Tier I Success

Preparing for the **SSC CGL Tier I** examination requires more than just hard work—it demands a clear understanding of the exam pattern and sharp problem-solving skills. This guide is designed to support your preparation by offering a thorough review of the **SSC CGL 2023 Quant Previous Year Paper - 24 July 2023 - Shift 3** complete with answer keys and detailed explanations.

At **Quant Sir**, we provide you with access to the actual 2023 question paper along with step-by-step solutions, helping you grasp the exam format and master the techniques needed to solve challenging problems effectively. This real-exam practice not only familiarizes you with question types but also boosts your confidence for the big day.

Whether you're taking the exam for the first time or aiming to strengthen your preparation further, this guide is tailored to help you refine your strategy and improve your performance. With **Quant Sir**, you're not just preparing—you're preparing smart.

SSC CGL 2023 Quant Previous Year Paper – Exam Pattern

Here's the exam pattern for SSC CGL Tier I exam held in 2023.

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	

• Negative Marking: 0.50 marks for each wrong answer.



SSC CGL 2023 Quant Previous Year Paper – Topic wise Weightage

The following table provides an overview of the topic-wise distribution of questions from SSC CGL 2024 Quant Previous Year Paper - 24 July 2023 - Shift 3. It highlights the key areas of focus and the number of questions from each topic to help analyze the pattern.

Topic	No. of Questions
Speed, Distance & Time	3
Simplification	3
Discounts	1
Geometry	4
Trigonometry	3
Algebra	2
Work and Time	3
Mensuration	1
Profit and Loss	1
Ratio and Proportion	2
Percentage	1
Simple Interest	1
Bar Graphs	1

SSC CGL 2023 Quant Previous Year Paper – Tips to solve

Here are some effective tips to solve the SSC CGL Quantitative Aptitude section efficiently:



QUANT SIR

FREE PDF

title

- **Understand the Question:** Read each question carefully to identify the concept or formula required. Avoid rushing into calculations without fully understanding the problem.
- **Prioritize Topics:** Start with familiar topics or those that require straightforward calculations, such as Ratio & Proportion or Simplification, to save time and build confidence.
- **Time Management:** Allocate time for each question and avoid spending too much time on one problem. Skip lengthy questions and revisit them after solving easier ones.
- **Use Shortcut Techniques:** For common topics like Mensuration, Percentage, and Profit & Loss, use shortcut methods and tricks to solve questions quickly.
- **Work with Accuracy:** Double-check calculations to avoid errors. Use approximation techniques for lengthy calculations where exact answers aren't necessary.
- **Focus on Data Interpretation:** Analyze graphs, charts, or tables carefully in DI questions. Practice identifying patterns and trends to improve speed.
- **Apply Formulas Smartly:** Memorize key formulas, such as those for geometry, trigonometry, and algebra, and know when to apply them.
- **Practice Word Problems:** Pay attention to key terms and translate the problem into mathematical equations. Understand real-life implications of the questions for better clarity.
- **Review Your Paper:** If time permits, revisit skipped or doubtful questions and review your answers for mistakes.
- **Stay Calm and Focused:** Maintain composure during the exam to think clearly and solve questions systematically.

Consistent practice and familiarity with the question pattern will help you excel in solving similar papers effectively.



SSC CGL 2023 Quant Previous Year Paper - 24 July 2024 - Shift 3

3

+91-8436586516

✉ quantsirssc@gmail.com



title

Q:1 A car covers a distance of 350 km in 5 hours and covers another 450 km at a speed of 90 km/h. What is the average speed (in km/h) of the car?

1. 72
2. 82
3. 80
4. 85

Q:2 Simplify the following.

$$\frac{0.01 \times 0.01 \times 0.01 + 0.003 \times 0.003 \times 0.003}{0.05 \times 0.05 - 0.015 \times 0.05 + 0.015 \times 0.015}$$

1. $\frac{13}{25} \times 10^3$
2. $\frac{13}{15} \times 10^{-3}$
3. $\frac{13}{15} \times 10^3$
4. $\frac{13}{25} \times 10^{-3}$



Q:3 A shopping mart offers four different discounts schemes on the sale of an object as follows:

- (1) A discount of 30%
- (2) Two successive discounts of 15%
- (3) Buy 2, get 1 free
- (4) Buy 5, get 3 free

Which discount scheme offers the maximum discount to a customer?

1. (1)
2. (4)
3. (2)
4. (3)



Q:4 Two circles with radii 22 cm and 16 cm touch each other externally. The length of the direct common tangent is:

1. $4\sqrt{22}$ cm
2. $8\sqrt{11}$ cm
3. $4\sqrt{11}$ cm
4. $8\sqrt{22}$ cm

Q:5 If $\triangle ABC$ and $\triangle DEF$ are congruent triangles, then which of the following is FALSE?

1. The ratio of AC to DF is 2 : 1.
2. The perimeter of both the triangles is equal.
3. $AB = DE$, and $BC = EF$
4. The ratio of the angles in both the triangles is the same.

Q:6 If $\tan x = \frac{4}{3}$, then the value of $\frac{9 \sin x - \frac{42}{5} \cos x}{15 \sin x + 21 \cos x}$ is:

1. 0
2. 1
3. 0.1
4. 0.5

Q:7 The difference between the cubes of two given natural numbers is 6272, while the positive difference between the two given numbers is 8. What is the product of the two given numbers?

1. 160
2. 240
3. 200
4. 320

Q:8 If $\frac{a}{b} = \frac{7}{6}$, then find the value of the expression $\frac{6a+13b}{6a-13b}$.



title

1. $-3/10$
2. $10/3$
3. $-10/3$
4. $3/10$

Q:9 In a 200-m linear race, if A gives B a start of 25 m, then A wins the race by 10 seconds. Alternatively, if A gives B a start of 45 m, the race ends in a dead heat. How long does A take to run 200m?

1. 78 seconds
2. 77 seconds
3. 78.5 seconds
4. 77.5 seconds

Q:10 Ram can copy 60 pages in 15 hours. If Ram and Riya together can copy 180 pages in 30 hours, then in how many hours can Riya copy 20 pages?

1. 29 hours
2. 12 hours
3. 20 hours
4. 10 hours

Q:11 4 women and 7 men earn a total of ₹11,480 in 7 days, while 10 women and 17 men earn a total of ₹36,360 in 9 days. How much will 11 women and 9 men together earn (in ₹) in 13 days?

1. 42270
2. 42640
3. 42510
4. 42900



title

Q:12 A notebook was sold for Rs.28 with a profit of 12%. If it had been sold for Rs.26.25, then what would have been the profit percentage?

1. 5%
2. 7%
3. 4%
4. 6%

Q:13 A can complete a work in 9 days and B in 12 days. If they work together on it for 5 days, then the fraction of the work left is:

1. $\frac{1}{35}$
2. $\frac{1}{36}$
3. $\frac{5}{36}$
4. $\frac{35}{36}$



Q:14 An airplane travels five times as fast as a bus. If the bus covers 60 km in 80 minutes, then what distance (in km) will the airplane cover in 25 minutes?

1. 95.35
2. 93.75
3. 65.35
4. 18.75

Q:15 The interest on a certain deposit at 4.5% p.a. is ₹135 in one year. How much will the additional interest in one year be on the same deposit at 5% p.a.?

1. ₹16
2. ₹15
3. ₹14
4. ₹18



Q:16 Simplify the following expression.

$$2 + (30 - 26)^2 \div 8^{3-2} \times 0.5$$

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

Q:17 The centroid of an equilateral triangle PQR is L. If PQ = 6 cm, the length of PL is:

1. $2\sqrt{3}$ cm
2. $4\sqrt{3}$ cm
3. $5\sqrt{3}$ cm
4. $3\sqrt{3}$ cm



Q:18 Simplify the given expression.

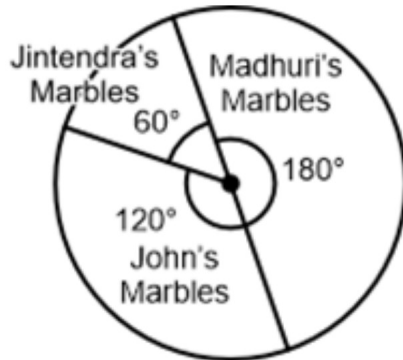
$$15 - (-5) \times \{4 - (7 - 3)\} \div [3 \times \{5 \div (-3) \times (-6)\}]$$

1. 21
2. 15
3. 88
4. 125

Q:19 Study the given pie-chart and answer the question that follows.



title



If the pie-chart shows the distribution of 36 marbles among 3 persons, then the number of marbles Madhuri has is:

1. 12
2. 8
3. 16
4. 18



Q:20 A person spends 25% of his income on goods of daily uses. Furthermore, he spends 18% of the rest on house rent and 16% of the rest on travel. After that, only Rs.861 is left with him. What is his salary?

1. Rs. 185213
2. Rs. 166623
3. Rs. 156313
4. Rs. 142613

Q:21 If $\sin\theta + \operatorname{cosec}\theta = \sqrt{5}$, then the value of $\sin^3\theta + \operatorname{cosec}^3\theta =$ _____.

1. 0
2. $3\sqrt{5}$
3. $1\sqrt{5}$
4. $2\sqrt{5}$



title

Q:22 If $\operatorname{cosec} \theta + \cot \theta = 3/2$, then what is the value of $\operatorname{cosec} \theta$?

1. $13/12$
2. $3/2$
3. $11/12$
4. $9/13$

Q:23 A, B and C together can complete a work in 12 days. A as well as B alone can do the same work in 36 days. In how many days can C alone complete the same work?

1. 48
2. 25
3. 12
4. 18



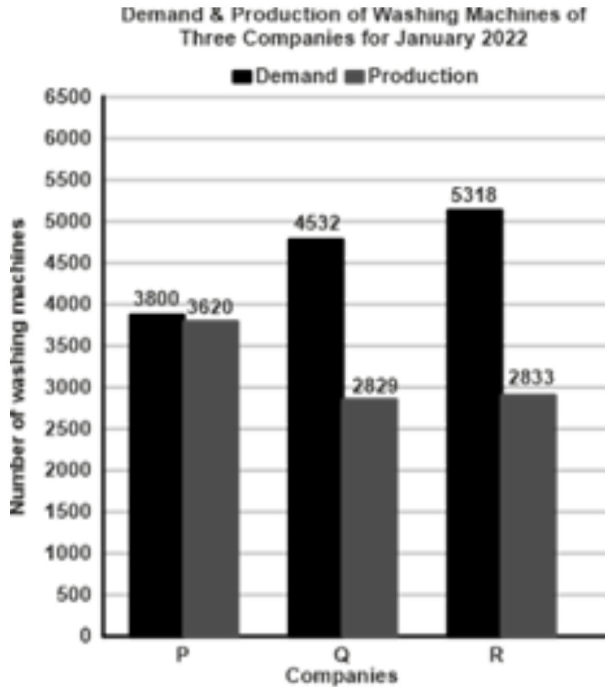
Q:24 If the diameter of a sphere is 7 cm, then find the volume of the sphere. (use $\pi = 22/7$) (Rounded up to two places of decimal).

1. 184 cm^3
2. 201.34 cm^3
3. 128.87 cm^3
4. 179.67 cm^3

Q:25 Study the given bar graph carefully and answer the following question.



title



What is the difference between the average demand and the average production of the three companies taken together?

1. 1,272
2. 1,530
3. 1,850
4. 1,456

SSC CGL 2023 Quant Previous Year Paper - Answer Key

Check out your score in this test.

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



title

Comment below your score, considering each question carries 2 marks. If you scored above 45, congratulations! You're well on your way to cracking the exam. A score between 35 and 45 indicates good preparation—keep up the excellent work! If your score is below 30, focus on identifying and improving weak areas through targeted practice.

To enhance your performance, refer to the detailed solutions for this question paper to gain insights and refine your approach. Practice consistently with our **Topic-wise tests**, **PYQs**, and ensure you manage your time effectively in the exam. Stay tuned with **us** for more **SSC CGL 2023** question papers with solutions and answer keys to boost your preparation further. Remember, perseverance is the key to success!

