Welcome to the Quant Sir Comprehensive Guide – Your Reliable Partner for SSC CGL Tier I Excellence

Succeeding in the **SSC CGL Tier I** exam requires more than just diligence—it demands strategic preparation, conceptual clarity, and precise problem-solving abilities. This guide is thoughtfully designed to empower your preparation with a detailed analysis of the **SSC CGL 2024 Quant Previous Year Paper - 10 Sep 2024 - Shift 2**.

Inside, you'll find accurate answer keys and in-depth, step-by-step solutions to every question. At **Quant Sir**, we go beyond just providing the question paper—we offer expert-backed explanations to help you identify recurring patterns, evaluate difficulty levels, and apply the most efficient solving techniques.

Working with actual exam-level questions not only enhances your familiarity with the paper format but also builds the confidence and accuracy essential for high performance. Whether you're just beginning your SSC CGL journey or refining your final lap of preparation, this guide is your go-to tool to sharpen speed, boost accuracy, and maximize your score.

SSC CGL 2024 Quant Previous Year Paper - Exam Pattern

Here's the exam pattern for SSC CGL Tier I exam held in 2024.

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 2024 Quant Previous Year Paper - Topicwise Weightage

The table below presents a detailed topic-wise analysis of the SSC CGL 2024 Quant Previous Year Paper - 10 Sep 2024 - Shift 2. It outlines the key focus areas along with the number of questions asked from each topic, offering valuable insights into the exam's question pattern. This breakdown will enable you to refine your preparation strategy with greater accuracy and confidence.

Topic	No. of Questions
Simplification / BODMAS	2
Simple & Compound Interest	1
Geometry – Circles	1
Profit & Loss / Discount	2
Number System / Remainder	1
Trigonometry	3
Data Interpretation – Bar Graph	2
Percentage / Successive Change	2
Linear Equations	2
Mensuration – Cone/Volume	1
Time & Work / Pipes & Cisterns	1
Angles / Triangles	2
Speed, Time & Distance	2
Surds & Indices / Algebraic Identities	1
Ratio & Proportion	1
Data Interpretation – Table	1

SSC CGL 2024 Quant Previous Year Paper - Tips to Solve

Here are top tips to ace the SSC CGL Quantitative Aptitude section:

1. **Master Quick Tricks and Techniques:** Learn and regularly practice shortcut methods for high-frequency topics such as Percentages, Profit & Loss, and Mensuration. These tricks can significantly speed up your problem-solving.
2. **Prioritize Accuracy:** Speed is important, but precision wins the marks. Use approximation techniques where applicable, but always aim for accurate answers—especially in high-weightage questions.
3. **Stay Consistent with Data Interpretation:** Make DI a regular part of your practice. The more you work with charts, graphs, and tables, the quicker you'll get at spotting patterns and extracting relevant data.
4. **Know Your Formulas Cold:** Be well-versed in formulas from key areas like Algebra, Geometry, and Trigonometry. Equally important is knowing how and when to apply them effectively.
5. **Break Down Complex Word Problems:** For lengthy problems, break the information into smaller parts. Translate the words into mathematical expressions and use visual aids or real-life examples to make them more manageable.

Consistency, clarity in concepts, and a smart approach to practice are your best tools for cracking the Quant section and achieving a top score.

SSC CGL 2024 Quant Previous Year Paper - 10 Sep 2024 - Shift 2

Q:1 Simplify: 21 − [6 + 7 − {3.22 − (1.1 × 0.2)}]

1. 13

2. 12

3. 11

4. 10

Q:2 What annual installment will discharge a debt of ₹26,160 due in 4 years at 6% simple interest p.a.?

1. ₹4,500

2. ₹5,500

3. ₹6,000

4. ₹5,800

Q:3 In a circle of radius 5√13 cm, a chord is at a distance of 10 cm from the center of the circle. Find the length (in cm) of the chord.

1. 30

2. 28

3. 36

4. 15

Q:4 Two successive discounts of 40% and 30% are equal to a single discount of:

1. 70%

2. 35%

3. 58%

4. 60%

Q:5 If $(77^{77}+77)$ is divided by 78, then the remainder will be:

1. 76

2. 77

3. 78

4. 1

Q:6 If cotθ = 4/3, then evaluate $(\sec\theta(1 + \cot^2\theta)(\csc^2\theta - \cot^2\theta))/\csc^3\theta$.

1. 3/4

2. 4/5

3. 4/3

4. 3/5

Q:7 Directions: The bar graph shows the production of bikes by a company (in thousands) over the years.

Production of bikes by a company (in thousands)

In how many of the given years was the production of bikes more than the average production of bikes over the years?

1. 1 year

2. 2 years

3. 3 years

4. 4 years

Q:8 Ravi's salary was increased by 50%. After some time, his new salary was also increased by 50%. Find his gain percentage of salary.

1. 125%

2. 100%

3. 200%

4. 150%

Q:9 Simplify: (0.58 × .58 × .58 - .001)/(0.58 × .58 + .058 + .01)

1. 0.48

2. 0.28

3. 0.37

4. 0.42

Q:10 The concentrations of three acids, A, B and C, are specified as 20%, 30% and 40%, respectively. They are blended in a ratio of 3 : 5 : a, yielding a solution with a concentration of 30%. What is the value of 'a'?

1. 3

2. 1

3. 2

4. 4

Q:11 Akshay purchased pens and notebooks from a shop for a total sum of ₹180. From the following data, what is the value of 'X'?

Items	Price per unit (in ₹)	Quantity
Pens	10	X
Notebooks	20	6

1. 4

2. 6

3. 5

4. 7

Q:12 A merchant has 1000 kg of sugar, part of which he sells at a 10% profit and the rest at a 40% profit. He gains 20% on the whole. The quantity sold at 40% profit is:

1. $543\frac{1}{3}$ kg

2. $383\frac{1}{3}$ kg

3. $333\frac{1}{3}$ kg

4. $443\frac{1}{3}$ kg

Q:13 If $\sqrt{x} + 1\frac{1}{\sqrt{x}}$ = 7, then the value of x + 1/x is equal to:

1. 47

2. 49

3. 51

4. 45

Q:14 Pipe L can fill a pool in 30 hours and pipe M in 45 hours. If both the pipes are opened in an empty pool, how much time will they take to fill it?

1. 24 hours

2. 17 hours

3. 18 hours

4. 20 hours

Q:15 A right triangle with sides 3 cm, 4 cm and 5 cm is rotated about the sides of 3 cm to form a cone. The volume of the cone so formed is:

1. 20π cm^3

2. 16π cm^3

3. 25π cm^3

4. 28π cm^3

Q:16 If 45° and 65° are the angles of a triangle, then find the exterior angle of the third angle (remaining angle).

1. 110°

2. 120°

3. 70°

4. 100°

Q:17 Places A and B are 20 km apart on the highway. A car starts from A and another from B at the same time. If the cars travel in the same direction at different speeds, they meet in one hour. If they traveled towards each other, they meet in 12 minutes. What are the speeds (in km/h) of two cars?

1. 60, 40

2. 52, 48

3. 51, 49

4. 55, 45

Q:18 Directions: Study the given bar-graph and answer the question that follows.

The bar-graph shows the sales of books (in thousands) from six branches (B1, B2, B3, B4, B5 and B6) of a publishing company during two consecutive years 2000 and 2001.
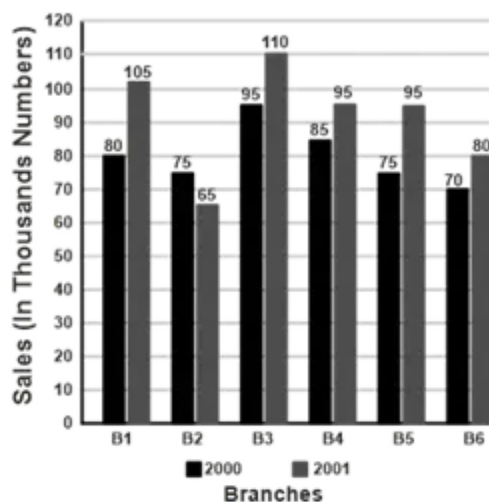
The total sales of branch B6 for both the years is what percentage of the total sales of branch B3 for both the years (correct up to two decimal places)?

1. 70.69%

2. 73.17%

3. 69.25%

4. 82.26%

Q:19 ΔEFG and ΔHIJ are similar triangles. Also, ∠E = ∠H and ∠F = ∠I. If 3EF = HI and FG = 9 cm, then IJ is equal to ____.

1. 9 cm

2. 27 cm

3. 3 cm

4. 18 cm

Q:20 If p cos A = 2q sin A and 2p cosec A - q sec A = 3, then the value of $p^2 + 4q^2$ is:

1. 2

2. 4

3. 1

4. 3

Q:21 If 2tanθ = 3, then $\dfrac{3 \sin \theta - 2 \cos \theta}{3 \sin \theta + 2 \cos \theta}$ is equal to:

1. 6/13

2. 6/7

3. 5/7

4. 5/13

Q:22 If A : B = 6 : 8 and B : C = 5 : 12, then A : B : C is:

1. 11 : 32 : 44

2. 10 : 23 : 14

3. 14 : 31 : 28

4. 15 : 20 : 48

Q:23 Directions: The given table shows the number of books on different subjects.

Subjects	Number of books
B1	120
B2	150
B3	150
B4	120
B5	120

What is the ratio of the number of books for subject B1 to the average number of books per subject?

1. 3 : 5

2. 10 : 11

3. 4 : 5

4. 2 : 5

Q:24 A policeman noticed a thief at a distance of 500 metres. The policeman started running and the thief also started running at the same time. The thief is running at a speed of 15 km/h. It took 15 minutes for the policeman to catch the thief. Find the speed of the policeman (in km/h).

1. 11

2. 17

3. 12

4. 10

Q:25 Find the values of x, y, and z, to satisfy the equations given below:

x + y + z = 12; x + y − z = 6; x − y + z = 4

1. x = 5, y = 4, z = − 3

2. x = 5, y = − 4, z = 3

3. x = 5, y = 4, z = 3

4. x = 5, y = − 4, z = − 3

SSC CGL 2024 Quant Previous Year Paper - Answer Key

You can check your score for this test here.

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

Each question in this paper is worth 2 marks.

- Scored above 45? Great job! You're clearly on the right track toward cracking the SSC CGL exam. Keep up the consistent effort and maintain your practice routine.
- Scored between 35 and 45? Well done! You've established a strong foundation. With continued focus and targeted practice, you're poised to improve further.
- Scored below 30? Don't worry—this is a chance to regroup. Identify your weak areas and dedicate time to mastering them through focused revision and smart practice.

To boost your performance, make sure to review the detailed solutions provided in this guide. They'll help you understand the best solving methods, avoid common mistakes, and sharpen your problem-solving techniques.

Remember, success in SSC CGL isn't just about hard work—it's about working smart. Be consistent, learn from your errors, and manage your time effectively during practice and the actual exam.

Stay connected with Quant Sir for more SSC CGL 2024 papers, complete with answer keys and expert explanations, and continue your preparation with confidence and clarity.