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

Preparing for the **SSC CGL Tier I** exam demands more than just hard work—it calls for a smart strategy, strong conceptual clarity, and refined problem-solving skills. This guide is designed to support your preparation journey by offering an in-depth review of the **SSC CGL 2024 Quant Previous Year Paper - 11 Sep 2024 - Shift 2,** along with accurate answer keys.

At **Quant Sir**, we provide the actual question paper from the exam, paired with detailed, step-by-step solutions. Our goal is to help you decode the exam pattern and master the methods required to solve challenging problems with ease and confidence. This real-exam practice ensures you're not just familiar with the types of questions asked, but also capable of tackling them effectively.

Whether you're a first-time aspirant or aiming to fine-tune your approach, this guide will help sharpen your strategy and boost your performance. With **Quant Sir** by your side, you're not just working hard—you're preparing smart.

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 (Qualifying Nature)

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

SSC CGL 2024 Quant Previous Year Paper - Topicwise Weightage

The table below offers a topic-wise analysis of the SSC CGL 2024 Quant Previous Year Paper - 11 Sep 2024 - Shift 2. It highlights the major focus areas and the number of questions asked from each topic, giving you valuable insights into the exam pattern and helping you fine-tune your preparation strategy.

Topic	Total Questions
Trigonometry	4
Averages	1
Data Interpretation	4
Geometry & Mensuration	4
Simplification	2
Algebra	1
Number System	2
Simple Interest	2
Time & Work (Pipes/Cisterns)	1
Percentage & Profit/Loss	2
Speed, Time & Distance	1
Congruency / Triangle Basics	1

SSC CGL 2024 Quant Previous Year Paper - Tips to Solve

Here are top tips to ace the SSC CGL Quantitative Aptitude Section.

Read the Question Carefully: Before diving into calculations, take a moment to fully understand what's being asked. Misreading a question can lead to avoidable errors.

Start with Your Strengths: Tackle the topics you're most confident in first—such as Simplification or Ratio & Proportion. These can be solved quickly and help you build early momentum.

Use Time Strategically: Allocate a fixed amount of time per question. Don't dwell too long on any single problem—move ahead and circle back if time allows.

Leverage Shortcuts and Tricks: Learn quick methods for high-frequency topics like Percentages, Profit & Loss, and Mensuration to improve your speed.

Focus on Accuracy: Speed is vital, but not at the cost of accuracy. Use estimation where helpful, and double-check your answers when possible.

Consistent practice and a clear understanding of the exam pattern are essential to mastering the Quant section and boosting your score over time.

SSC CGL 2024 Quant Previous Year Paper - 11 Sep 2024 - Shift 2

Q:1 In a triangle $\triangle ABC$, the $\angle ABC = 90°$. If $\sin(A) = \frac{1}{2}$, then $\cos(C)$ is equal to:

1. $\frac{1}{\sqrt{2}}$

2. 1

3. $\frac{\sqrt{3}}{2}$

4. 1/2

Q:2 Find the average of the prime numbers lying between 50 and 76.

1. 66

2. 60

3. 62

4. 64

Q:3 Directions: Five different companies, P, Q, R, S, and T, manufacture plastic and wooden bats. These bats are labeled as Brand A or Brand B. The given table shows the number of wooden bats as a percentage of the total bats manufactured by each company. It also shows the ratio of plastic bats labeled as Brand A to Brand B. Each company manufactures 1,00,000 bats. Study the table carefully and answer the question that follows.

Company	Wooden bats	Brand A : Brand B
P	65%	3 : 7
Q	70%	7 : 8
R	60%	19 : 6
S	70%	7 : 8
T	50%	2 : 3

Taking all companies together, how many plastic bats of Brand B have been manufactured?

1. 86,100

2. 96,100

3. 90,500

4. 80,500

Q:4 If the ratio of the areas of two similar triangles is 25 : 144, the ratio of their corresponding sides is:

1. 5 : 12

2. 5 : 144

3. 25 : 12

4. 12 : 5

Q:5 Simplify: $1020 \div [\frac{4}{3} \text{ of } (26 + 4) - 11\frac{2}{3}]$
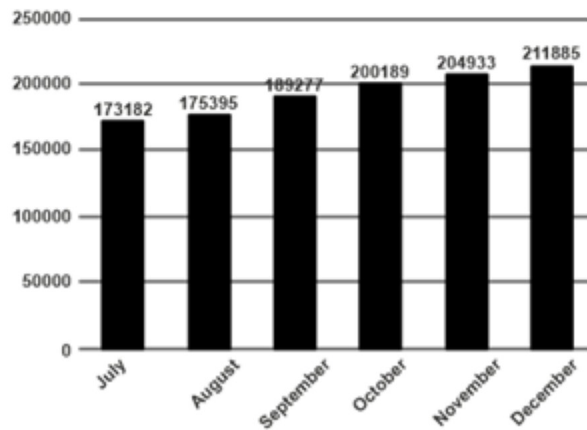
1. 28

2. 36

3. 17

4. 31

Q:6 Directions: The following bar graph shows the circulation growth of the magazine ABC from July 2022 to December 2022

From October to December, there was an even growth rate, the average of which, is (correct up to one decimal place):

1. 3.2%

2. 2.4%

3. 2.9%

4. 3.8%

Q:7 Find the quotient, when the mean proportional of $7\frac{1}{5}$ and 245 is divided by an even prime number.

1. 49

2. 42

3. 21

4. 36

Q:8 Which of the following numbers is divisible by both 2 and 5?

1. 63840

2. 20792

3. 37915

4. 37254

Q:9 Find the area of a square, one of whose diagonals is 4.8 m long.

1. 12.5 m^2

2. 10.5 m^2

3. 9.5 m^2

4. 11.52 m^2

Q:10 How many years will it take for ₹8,400 to amount to ₹11,928 at a simple interest rate of 7% per annum?

1. 8

2. 5

3. 2

4. 6

Q:11 Directions: The following table shows the sales of cars of five manufacturers from 2016 to 2020.

(All the figures are in hundreds.)

Manufacturer	2016	2017	2018	2019	2020
M$_1$	180	190	200	210	220
M$_2$	160	170	180	190	200
M$_3$	190	200	210	220	230
M$_4$	200	210	220	230	240
M$_5$	210	220	230	240	250

What is the difference between the total number of sales of manufactured M$_2$ and the total number of sales of manufacturer M1 during the years 2016 to 2019?

1. 12000

2. 18000

3. 14000

4. 80000

Q:12 Evaluate the value of (cosec56° cos34° − cos59° cosec31°).

1. 1

2. 2

3. −1

4. 0

Q:13 Pipe A usually fills a tank in 6 hours. But due to a leak at the bottom of the tank, it takes extra 2 hours to fill the tank. If the tank is full, then how much time will it take to get emptied due to the leak?

1. 16 hours

2. 20 hours

3. 12 hours

4. 24 hours

Q:14 The salary of a worker is first increased by 25%, then it is decreased by 12%. The percentage change in his salary is:

1. 10% increase

2. 13% increase

3. 10% decrease

4. 13% decrease

Q:15 In ΔPQR, M, N, and S are the mid-points of sides PQ, PR, and QR, respectively. If the area of the ΔPQR is 46 cm^2, what is the area (in cm^2) of the quadrilateral MNRQ?

1. 39

2. 27.6

3. 23

4. 34.5

Q:16 The value of the expression $(1.55^2 + 0.55^2 + 1.55 \times 0.55)$ is equal to:

1. $1.55^2 - 0.55^2$

2. $1.55^3 - 0.55^3$

3. $1.55^3 + 0.55^3$

4. $1.55^2 + 0.55^2$

Q:17 A policeman notices a thief from a distance of 200 m. The thief starts running and the policeman chases him. The thief and the policeman run at 10 km/h and 11 km/h, respectively. What is the distance (in meters) between them after 9 minutes?

1. 40

2. 50

3. 30

4. 60

Q:18 △ABC and △RPQ are congruent, then the side of △ABC that corresponds to PQ is:

1. AB

2. CA

3. AR

4. BC

Q:19 The cost price of a bat is 75% of the marked price. Calculate the gain percentage after allowing a discount of 15%.

1. 25.6%

2. 13.33%

3. 18.16%

4. 21.33%

Q:20 In a triangle △ABC, AB = AC and ∠A = 80°, then find B.

1. 50°

2. 80°

3. 40°

4. 45°

Q:21 Find the value of:

$[\frac{4}{3} \tan^2 60° + 3 \cos^2 30° - 2 \sec^2 30° - \frac{3}{4} \cot^2 60°] \div [\sin 60° \cos 30° - \cos 60° \sin 30°]$

1. $6\frac{2}{3}$

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

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

4. $6\frac{3}{2}$

Q:22 S borrowed some amount from R and promised to pay him 8% interest. Then S invested the borrowed amount in a scheme, upon which he earned a profit of 5% after paying R, the principal amount with interest. How much percentage R would have gained, if he had invested in the scheme directly?

1. 13.4%

2. 13%

3. 14.4%

4. 14%

Q:23 If 0.4x + 0.16y = 1.7 and 0.3x + 0.12y = 3.4, then which of the following is correct?

1. The system has finitely many solutions but not unique

2. The system has infinitely many solutions

3. The system has no solution

4. The system has unique solution

Q:24 Simplify: $\dfrac{(4.2)^3 - (1.2)^3}{(4.2)^2 + 5.04 + (1.2)^2}$

1. 2

2. 3

3. 1

4. 5

Q:25 Directions: The following table shows scores in different subjects obtained by Akshay in school. Study the table and answer the question that follows.

Subject	Marks obtained	Total Marks
English	73	100
Hindi	56	80
Science	45	75
Mathematics	90	125
IT	45	60

In which subject did he score the highest marks (in %)?

1. IT

2. English

3. Hindi

4. Mathematics

SSC CGL 2024 Quant Previous Year Paper - Answer Key

You can view your score for this test here.

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

Each question is worth 2 marks.

- Scored above 45? Excellent work! You're on the right path to cracking the exam.
- Got between 35 and 45? That's a strong performance—keep building on this momentum.
- Below 30? Don't worry. Use this as a learning opportunity to identify weaker areas and work on them with focused practice.

To enhance your performance, make sure to review the detailed solutions provided for this paper. They'll help you understand the correct methods and improve your problem-solving approach.

Stay consistent with your preparation and develop smart time-management strategies for the actual exam.

Keep checking back **Quant Sir** for more SSC CGL 2024 question papers, complete with answer keys and solutions, to level up your preparation.