Welcome to the Quant Sir Comprehensive Guide – Your Companion for SSC CGL Tier II Exam Success.

Preparing for the SSC CGL Tier II 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 2024 Quant Previous Year Paper - 17 Sep 2024 - Shift 1** complete with answer keys.

At **Quant Sir**, we provide you with access to the actual 2024 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 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**	

• Negative Marking: 0.50 marks for each wrong answer.

SSC CGL 2024 Quant Previous Year Paper - Topicwise Weightage

The following table provides an overview of the topic-wise distribution of questions from SSC CGL 2024 Quant Previous Year Paper - 17 Sep 2024 - Shift 1. It highlights the key areas of focus and the number of questions from each topic to help analyze the pattern.

Topic	Number of Questions
Data Interpretation	3
Mensuration	3
Trigonometry	3
Ratio & Proportion	2
Algebra	3
Pipes & Cisterns	1
Profit & Loss	3
Percentage	1
Geometry	2
Simple Interest	1
Divisibility	1
Speed, Distance & Time	1
Simplification	1

SSC CGL 2024 Quant Previous Year Paper - Tips to Solve

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

1. **Understand the Question**: Read each question carefully to identify the concept or formula required. Avoid rushing into calculations without fully understanding the problem.

2. **Prioritize Topics**: Start with familiar topics or those that require straightforward calculations, such as Ratio & Proportion or Simplification, to save time and build confidence.

3. **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.

4. **Use Shortcut Techniques**: For common topics like Mensuration, Percentage, and Profit & Loss, use shortcut methods and tricks to solve questions quickly.

5. **Work with Accuracy**: Double-check calculations to avoid errors. Use approximation techniques for lengthy calculations where exact answers aren't necessary.

6. **Focus on Data Interpretation**: Analyze graphs, charts, or tables carefully in DI questions. Practice identifying patterns and trends to improve speed.

7. **Apply Formulas Smartly**: Memorize key formulas, such as those for geometry, trigonometry, and algebra, and know when to apply them.

8. **Practice Word Problems**: Pay attention to key terms and translate the problem into mathematical equations.
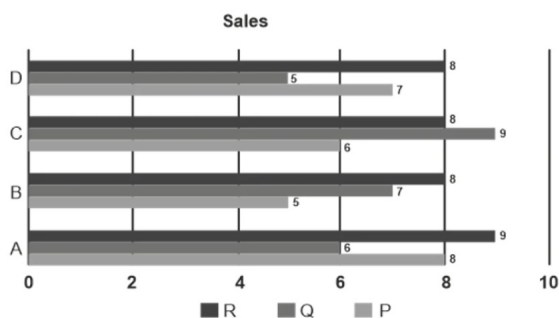
Consistent practice and familiarity with the question pattern will help you excel in solving similar papers effectively.

SSC CGL 2024 Quant Previous Year Paper - 17 Sep 2024 - Shift 1

Q:1 Study the given graph and answer the question that follows.

The graph shows the sales of three products: P, Q and R by four companies: A, B, C and D.

What percentage is the total production by company C, of the total production by company A?

1. 110%

2. 90%

3. 100%

4. 105%

Q:2 The circumference of the base of a cylindrical vessel is 44 cm, and its height is 25 cm. How many liters of water can it hold? (Take π = 22/7)

1. 38.5

2. 3.58

3. 3.85

4. 83.5

Q:3 If cos24° = m/n, then the value of (cosec 24° − cos66°) is:

1. $\dfrac{m^2}{n\sqrt{m^2-n^2}}$

2. $\dfrac{n^2}{m\sqrt{m^2-n^2}}$

3. $\dfrac{n^2}{m\sqrt{n^2-m^2}}$

4. $\dfrac{m^2}{n\sqrt{n^2-m^2}}$

Q:4 If A : B = 6 : 8 and B : C = 7 : 10, then A : B : C is:

1. 21 : 28 : 40

2. 21 : 23 : 40

3. 23 : 32 : 40

4. 14 : 31 : 20

Q:5 AP and AQ are two tangents drawn to a circle with centre O from an external point A. If ∠PAQ = 40°, then ∠POQ is:

1. 120°

2. 130°

3. 150°

4. 140°

Q:6 If secθ = 29/20 where 0 < θ < 90°, then what is the value of 3cosecθ + 3cotθ?

1. 7/3

2. 7

3. 14

4. 49

Q:7 If x > 1 and $x^2 + 1/x^2 = 83$, then $x^3 - 1/x^3$ is:

1. 884

2. 876

3. 754

4. 756

Q:8 In a right angle ΔABC, ∠B = 90°, if tanA = 1, then 4 sinA cosA =_____.

1. 1

2. 2

3. 1/2

4. 4

Q:9 Pipes A and B can fill a tank in 15 hours and 25 hours, respectively, whereas pipe C can empty the full tank in 40 hours. All three pipes are opened together, but pipe A is closed after 5 hours. After how many hours will the remaining part of the tank be filled?

1. $41\frac{4}{9}$

2. $43\frac{4}{9}$

3. $44\frac{4}{9}$

4. $39\frac{4}{9}$

Q:10 A shopkeeper marked the price 20% more than its cost price. If he allows a discount of 30%, then find his loss percent.

1. 20%

2. 16%

3. 25%

4. 15%

Q:11 In a company, all employees are getting equal wages. If the number of employees is increased by 20% and their wages per head are decreased by 18%, what is the percentage decrease in total wages?

1. 2.4%

2. 1%

3. 1.6%

4. 1.4%

Q:12 At what angle is the arc length half the perimeter of the circle?

1. 120°

2. 180°

3. 90°

4. 270°

Q:13 What is the difference in area (in cm^2) of ΔABC having sides of 10 cm, 20 cm, and 20 cm, and a right-angled triangle ΔPQR with a hypotenuse of 13 cm and one of the perpendiculars of 12 cm?

Note: √2 = 1.41, √3 = 1.73, √7 = 2.65, √13 = 3.61, √15 = 3.87, √21 = 4.58

1. 70.05

2. 36.57

3. 66.75

4. 53.58

Q:14 Find the measure of the central angle of a sector if its area is 16π and the radius is 8.

1. 75°

2. 60°

3. 108°

4. 90°

Q:15 The number of three different types of cars, X, Y, and Z, manufactured by a company over three years in given in the table below. Study the table carefully and answer the question that follows.
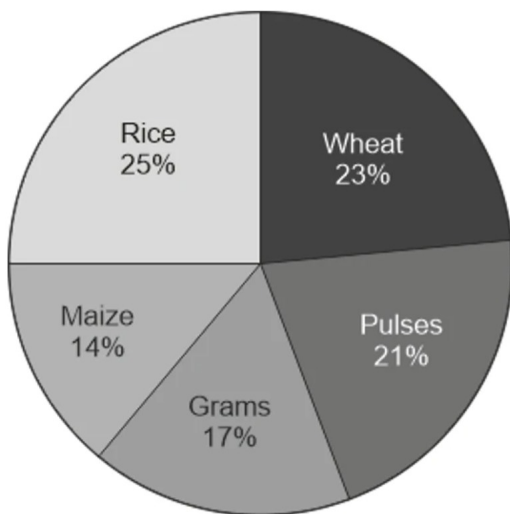
Cars/Years	2020	2021	2022
X	2560	3201	3551
Y	2250	2802	3020
Z	2750	2550	2600

What is the average number of cars manufactured by the company in the year 2022?

1. 3227

2. 2851

3. 3057

4. 2720

Q:16 The given pie chart shows the annual agricultural production (in tonnes) in a region. The total production is 8600 tonnes.

What is the annual production of the rice in the region?

1. 5012 tonnes

2. 1052 tonnes

3. 2150 tonnes

4. 2051 tonnes

Q:17 A shopkeeper sold the following items to Arushi, earning a profit on it. How much total profit (in ₹) did he earn on the basis of the given data?

Item	Cost Price per unit (₹)	Profit on cost (%)
Mobile	20,000	10
Laptop	72,000	20
Mobile covers	300	12

1. 16,436

2. 34,760

3. 16,760

4. 16,636

Q:18 For what value of k, the system of equations kx - 15y + 7 = 0 and 7x - 21y - 19 = 0 has NO solution?

1. 5

2. 12

3. 25

4. 6

Q:19 If a shopkeeper sells sugar at ₹44.4 per kg, he is able to make a 12% profit. Due to water seepage, 1/5 of the sugar is damaged. What should now be the selling price per kg of the rest of the sugar to have a 5% profit?

1. ₹49.5

2. ₹52.5

3. ₹48.5

4. ₹51.5

Q:20 If the simple interest on ₹7,200 in 3 years at the rate of 16% per annum equals the simple interest on ₹9,600 at the rate of x% per annum in 4 years. The value of x is equal to:

1. 9

2. 11

3. 8

4. 10

Q:21 Find the least value of k for which a 7-digit number 249k876 is divisible by 6.

1. 1

2. 0

3. 5

4. 7

Q:22 In a collection of rare coins, there is one gold coin for every four non-gold coins. If 20 more gold coins are added to the collection, the ratio of the number of gold coins to that of non-gold coins will be 2 : 3. The total number of coins in the collection will now become _____.

1. 80

2. 60

3. 100

4. 48

Q:23 Akshara and Siddharth travel from point P to Q, a distance of 72 km at a rate of 8 km/h and 10 km/h, respectively. Siddharth reaches Q first and returns immediately and meets Akshara at R. Find the distance from P to R.

1. 65 km

2. 63 km

3. 64 km

4. 66 km

Q:24 The average of the squares of the first 47 natural numbers is:

1. 760

2. 761

3. 759

4. 762

Q:25 Simplify: $[(\frac{1}{6} \div \frac{1}{9} \times \frac{2}{3}) \times 18 + 5]$

1. 9

2. 23

3. 27

4. 15

SSC CGL 2024 Quant Previous Year Paper - Answer Key

Check out your score in this test.

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

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, and ensure you manage your time effectively in the exam. Stay tuned for more SSC CGL 2024 question papers with solutions and answer keys to boost your preparation further. Remember, perseverance is the key to success!