



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

Cracking the **SSC CGL Tier I** exam takes more than just dedication—it requires a smart approach, strong conceptual understanding, and sharp problem-solving skills. This guide is crafted to support your preparation by offering a thorough analysis of the SSC CGL 2022 Quant Previous Year Paper - 12 April 2022 - Shift 1, complete with accurate answer keys.

At **Quant Sir**, we bring you the actual exam paper along with clear, step-by-step solutions. Our aim is to help you understand the exam pattern and master effective techniques for solving even the toughest questions with confidence. Practicing with real exam questions ensures you're not only familiar with the format but fully prepared to tackle it head-on.

Whether you're a beginner or looking to refine your strategy, this guide is your tool to enhance preparation and improve scores. With **Quant Sir** on your side, you're not just putting in the effort—you're preparing the smart way.

SSC CGL 2022 Quant Previous Year Paper - Exam Pattern

Here's the exam pattern for SSC CGL Tier I exam held in 2022.

Tier I: Computer-Based Exam

Section	No. of Questions	Maximum Marks	Time Allotted
General Intelligence & Reasoning	25	50	Total: 60 minutes
General Awareness	25	50	
Quantitative Aptitude	25	50	
English Comprehension	25	50	
Total	100	200	

SSC CGL 2022 Quant Previous Year Paper - Topicwise Weightage



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The table below presents a topic-wise breakdown of the SSC CGL 2022 Quant Previous Year Paper - 12 April 2022 - Shift 1. It outlines the key focus areas along with the number of questions from each topic, offering valuable insights into the exam pattern and helping you refine your preparation strategy more effectively.

Topics	No. of Questions
Ages	1
Profit, Loss & Discount	2
Simple Interest	1
Averages	1
Ratio, Proportion & Sharing	2
Percentage & Price Hike	1
Remainders, Cubes, LCM	4
2D & 3D Geometry	5
Heights, Identities (Trig)	3
Pie Chart, Bar Graph, Histogram	4
Polynomial Expressions (Algebra)	1



SSC CGL 2022 Quant Previous Year Paper - Tips to Solve

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



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1. **Understand the Question Thoroughly:** Don't rush into solving—take a moment to carefully read and comprehend what's being asked. Misinterpretation often leads to avoidable mistakes.
2. **Play to Your Strengths First:** Begin with the topics you're most comfortable with—like Simplification or Ratio & Proportion. These can be solved quickly, helping you build confidence and save time early on.
3. **Manage Your Time Wisely:** Allocate a set time per question. If a problem seems time-consuming, move on and revisit it later if time allows.
4. **Use Smart Shortcuts and Tricks:** Master quick techniques for commonly asked topics such as Percentages, Profit & Loss, and Mensuration to increase speed and efficiency.
5. **Prioritize Accuracy Over Speed:** Fast solving is important, but not at the cost of accuracy. Use estimation when suitable and verify your answers if time permits.
6. **Practice Data Interpretation Regularly:** Get comfortable analyzing charts, graphs, and tables. Look for trends and key data points to draw conclusions quickly and accurately.
7. **Memorize Key Formulas:** Know essential formulas from Algebra, Geometry, and Trigonometry. More importantly, understand how to apply them across various question types.
8. **Approach Word Problems Systematically:** Break down the problem, identify key terms, and translate them into equations. Visualizing or relating problems to real-world scenarios can also help.
9. **Review Before You Submit:** If you have time left, revisit skipped or flagged questions and double-check your calculations to minimize silly errors.
10. **Stay Calm and Composed:** A clear, focused mind enhances logical thinking. Avoid stress—it can cloud judgment and hinder performance.



Consistent practice, a solid grasp of concepts, and familiarity with the exam pattern are the keys to mastering the Quant section and steadily improving your score.

SSC CGL 2022 Quant Previous Year Paper - 12 April 2022 - Shift 1



Q:1 At present, A is younger than B by 8 years. If 4 years ago, their ages were in the ratio 1 : 2, then what is the present age of B (in years)?

1. 12
2. 20
3. 11
4. 18

Q:2 The marked price of an article is Rs.625. After allowing a discount of 32% on the marked price, there was a profit of Rs. 25. The profit percentage (correct to the nearest integer) is:

1. 7%
2. 4.25%
3. 5.25%
4. 6.25%



Q:3 What is difference in the volume (in cm^3) of a sphere of radius 7 cm and that of a cone of radius 7 cm and height 10 cm? (Use $\pi = 22/7$)

1. 205
2. 704
3. 1078
4. 924

Q:4 A, B and C can do work in 8, 10, and 12 days respectively. After completing the work together, they received Rs. 5,550. What is the share of B (in Rs) in the amount received?

1. 1,800
2. 1,696
3. 1,500
4. 1,850



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Q:5 The given bar graph shows exports of cars of type A and B (in Rs millions) from 2014 to 2018. Study the graph and answer the question that follows.

Study the graph and answer the question that follows.



What is the ratio of the total exports of cars of type A in 2014 and 2018 to the total exports of cars of type B in 2015 and 2017?

1. 5 : 4
2. 20 : 21
3. 10 : 9
4. 13 : 12

Q:6 What is the remainder when the product of 335, 608 and 853 is divided by 13?

1. 11
2. 6
3. 12
4. 7

Q:7 If $x + y + z = 11$, $xy + yz + zx = -6$, and $x^3 + y^3 + z^3 = 1604$, then find the value of xyz is:

1. 5



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- 2. 4
- 3. 1
- 4. 25

Q:8 The monthly expenditure of a family on different heads is shown in the following pie chart.



Expenditure on different heads

What is the percentage of family earnings spent on rent?

- 1. $15 \times (3/4)$
- 2. 15
- 3. $16 \times (2/3)$
- 4. $16 \times (1/3)$

Q:9 A tangent is drawn from a point P to a circle, which meets the circle at T such that $PT = 10.5$ cm. A secant PAB intersects the circle in points A and B. If $PA = 7$ cm, what is the length (in cm) of the chord AB?

- 1. 7.75
- 2. 8.5
- 3. 8.75



4. 8.45

Q:10 A trader sells an article for Rs. 425 and loses 15%. At what price (in Rs) should he sell the article to earn 5% profit?

1. 525

2. 510

3. 505

4. 445

Q:11 The ratio of the speeds of two trains is 2: 7. If the first train runs 250 km in 5 hours, then the sum of the speeds (in km/h) of both the trains is:

1. 150

2. 225

3. 175

4. 250

Q:12 The difference between the two perpendicular sides of a right-angled triangle is 17 cm and is 84 cm^2 . What is the perimeter (in cm) of the triangle?

1. 36

2. 49

3. 56

4. 40

Q:13 The price of petrol shot up by 5% before the hike, the price was Rs.82 per litre. A man travels 3045 km every month and his car gives a mileage of 15 km per liter. What is the increase in the monthly expenditure (to the nearest Rs) on the man's travel due to the hike in the petrol prices?

1. 944

2. 859



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3. 758

4. 832

Q:14 Find the value of the following expression:

$$\frac{5 - 35 \div 5 \times 15 + 5}{12 - 2}$$

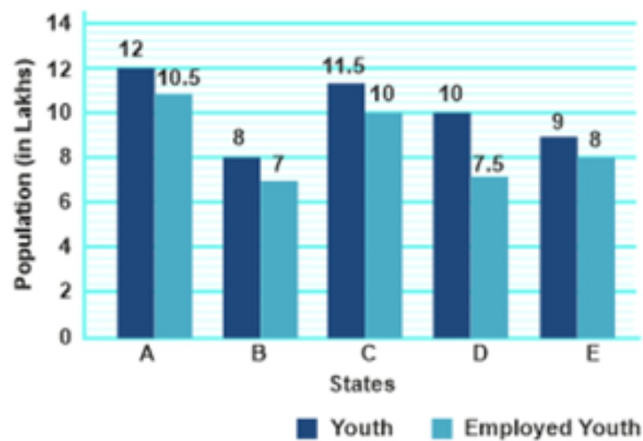
1. - 9.5

2. - 13.5

3. - 2.5

4. 11.5

Q:15 The following bar graph shows the total number of youth (in lakhs) and the number of employed youth (in lakhs) in 5 state A,B,C,D and E.



What is the ratio of the number of youth in states A, C, and E taken together to the number of employed youth in states B, C, and D taken together?

1. 57 : 49

2. 8 : 7

3. 65 : 59

4. 65 : 49



Q:16 A vertical pole and a vertical tower are on the same level ground in such a way that, from the top of the pole, the angle of elevation of the top of the tower is 60° and the angle of depression of the bottom of the tower is 30° . If the height of the pole is 24m, then find the height of the tower (in m).

1. $24\sqrt{3}(\sqrt{3} + 1)$
2. $24(\sqrt{3} + 1)$
3. 72
4. 96

Q:17 On simple interest, a certain sum becomes Rs.59,200 in 6 years and Rs.72,000 in 10 years. If the rate of interest had been 2% more, then in how many years would the sum have become Rs.76000?

1. 9
2. 8
3. 7
4. 10

Q:18 Which is the smallest multiple of 7, which leaves 5 as the remainder in each case, when divided by 8,9,12, and 15?

1. 2525
2. 1085
3. 365
4. 725

Q:19 If $3\sec^2 \theta + \tan \theta - 7 = 0$, $0^\circ < \theta < 90^\circ$, then what is the value of $\frac{(2\sin\theta + 3\cos\theta)}{(\operatorname{cosec}\theta + \sec\theta)}$?

1. $5/4$
2. $5/2$



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3. 10

4. $4\sqrt{2}$

Q:20 The average of 9 consecutive numbers is 20. The smallest of these numbers is:

1. 10

2. 20

3. 16

4. 12

Q:21 Find the value of $70^3 + 20^3 - 90^3$.

1. 0

2. -300000

3. 378000

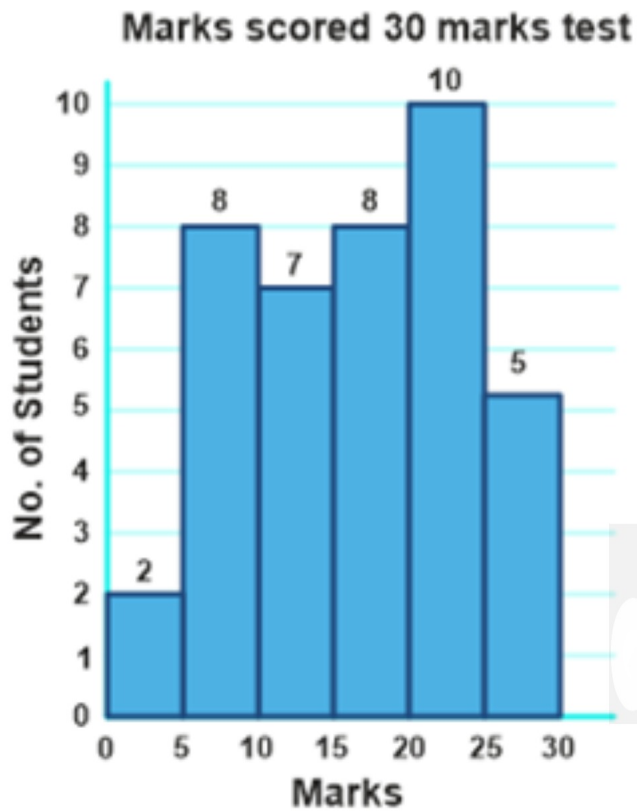
4. -378000



Q:22 The following histogram shows the marks scored by 40 students in a test of 30 marks. A student has to score a minimum of 10 marks to pass the test.



title



How many students have scored less than two-thirds of the total marks?

1. 25
2. 32
3. 17
4. 35

Q:23 If $\cot B = 12/5$, what is the value of $\sec B$?

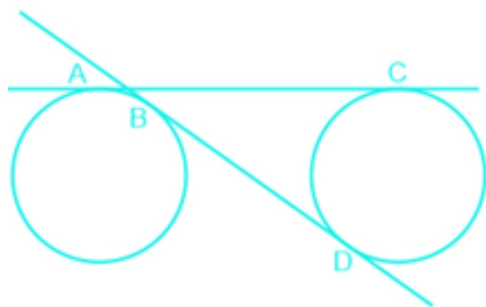
1. $13/12$
2. $5/12$
3. $13/5$
4. $12/13$



Q:24 The bisector of $\angle B$ in $\triangle ABC$ meets AC at D . If $AB = 12$ cm, $BC = 18$ cm and $AC = 15$ cm, then the length of AD (in cm) is:

1. 9
2. 6
3. 12
4. 5

Q:25 Two common tangents AC and BD touch two equal circles each of radius 7 cm, at points A , C , B , and D , respectively, as shown in the figure. If the length of BD is 48 cm, what is the length of AC ?



1. 50 cm
2. 40 cm
3. 48 cm
4. 30 cm

SSC CGL 2022 Quant Previous Year Paper - Answer Key

You can view your score for this test here.



title

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

Each question carries 2 marks.

- Scored above 45? Great job! You're well on your way to cracking the exam—keep up the strong work.
- Scored between 35 and 45? A solid performance! Continue building on this momentum with consistent practice.
- Scored below 30? Don't be discouraged. Use this as an opportunity to identify and improve upon your weaker areas with targeted preparation.

To boost your performance further, take time to review the detailed solutions provided for this paper. They'll guide you through the correct approaches and help refine your problem-solving techniques.

Stay consistent, stay strategic—smart time management and regular practice are key to success.

And don't forget to check back **Quant Sir** for more SSC CGL 2022 question papers, complete with answer keys and explanations, to keep advancing your preparation.