

SSC CGL
CBI
Sub-Inspector
EXAM 2027

BY A TEAM OF EXPERTS



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CBI Officer Exam Syllabus

The SSC CGL CBI Sub-Inspector Exam is conducted by the Staff Selection Commission through a two-tier computer-based examination process, followed by physical standards verification. Tier 1 is the preliminary stage and consists of 100 objective questions for 200 marks, to be completed in 60 minutes. It includes four sections—General Intelligence & Reasoning, General Awareness, Quantitative Aptitude, and English Comprehension—with 25 questions (50 marks) each. Every correct answer carries 2 marks, and 0.50 marks are deducted for each incorrect response. The exam is bilingual (English and Hindi), except for the English section. Tier 2 is the main examination and is compulsory for candidates shortlisted from Tier 1. It is also conducted online and primarily includes Paper I, covering Mathematical Abilities, Reasoning and General Intelligence, English Language and Comprehension, and General Awareness. The duration of Tier 2 is 2 hours and 15 minutes. Negative marking applies, with 1 mark deducted for certain sections and 0.50 marks for others as per SSC guidelines. Marks obtained in Tier 2 are crucial for final merit, after which candidates must undergo Physical Measurement Test before final appointment as a CBI Sub-Inspector..

Preface

The SSC CGL CBI Sub-Inspector Examination is a prestigious gateway for aspirants seeking a career in the Central Bureau of Investigation through the Combined Graduate Level Examination conducted by the Staff Selection Commission. Known for its competitive nature and high standards, this examination demands not only academic proficiency but also clarity of understanding regarding its structure and selection process.

This guide has been designed to provide a concise yet comprehensive overview of both Tier 1 and Tier 2 examination patterns, including subjects, marking scheme, duration, and negative marking provisions. By understanding the detailed structure of the examination, candidates can plan their preparation strategically and approach the test with confidence and precision. The objective of this section is to equip aspirants with clear insights into the examination framework, enabling them to streamline their efforts toward achieving success in one of the most respected investigative services in the country.

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Section I: Maths.

Methodology in Brief.

BODMAS

BODMAS is a rule that tells us the correct order in which mathematical operations should be done. It is used when a question has more than one operation like addition, subtraction, multiplication, division, powers, or brackets. If we do not follow a proper order, we may get the wrong answer. BODMAS stands for Brackets, Orders, Division, Multiplication, Addition and Subtraction.

Brackets are solved first. Brackets can be of different types such as small brackets (), square brackets [], and curly brackets { }. When brackets are inside each other, we solve the innermost bracket first and then move outward. For example, in the expression $8 + (5 - 3)$, we first solve the bracket $5 - 3 = 2$, and then add $8 + 2 = 10$. Orders mean powers and roots. For example, 2^3 means $2 \times 2 \times 2$ which equals 8. Similarly, $\sqrt{49}$ equals 7. In an expression like $3 + 2^2$, we first calculate $2^2 = 4$ and then add $3 + 4 = 7$. After brackets and orders, we solve division and multiplication. Division and multiplication are done from left to right, whichever comes first. For example, in $10 \div 2 \times 3$, we first divide $10 \div 2 = 5$ and then multiply $5 \times 3 = 15$. We do not multiply first because we must move from left to right.

After division and multiplication, we solve addition and subtraction. These are also done from left to right. For example, in $15 - 5 + 2$, we first subtract $15 - 5 = 10$ and then add $10 + 2 = 12$.

It is important to understand that BODMAS does not mean division is always done before multiplication or addition is always done before subtraction. Division and multiplication are equal in priority and are solved from left to right. Addition and subtraction are also equal in priority and are solved from left to right. Let us take a complete example. Consider $18 \div 3 \times 2 + 4 - 1$. First we do division: $18 \div 3 = 6$. Then multiplication: $6 \times 2 = 12$. Then addition: $12 + 4 = 16$. Then subtraction: $16 - 1 = 15$. So the final answer is 15.

Another example is $12 - 4 \times 2 + 3^2$. First solve the power: $3^2 = 9$. Then multiply: $4 \times 2 = 8$. Now the expression becomes $12 - 8 + 9$. Moving left to right, $12 - 8 = 4$ and $4 + 9 = 13$. So the answer is 13. Therefore, BODMAS helps us solve mathematical expressions correctly by following a fixed order. First brackets, then orders, then division and multiplication from left to right, and finally addition and subtraction from left to right. If we follow this rule carefully, we will always get the correct answer.

Other Methodologies

Ratio and Proportion (Value Variation Logic)

Description: When value is directly proportional to the square of weight, we write

$\text{Value} \propto (\text{weight})^2$

Therefore, $\text{Value} = k \times (\text{weight})^2$

where k is the constant of proportionality.

Let the two broken pieces have weights $5x$ and $8x$.

Original weight = $5x + 8x = 13x$

Original value

$= k(13x)^2$