

Wipro - Engineering Online Assessment Curriculum

Wipro's Online Assessment is a customized curriculum which will assess a candidate on the logical, reasoning and quantitative ability as well as Programming competency. The curriculum framed will help candidates to prepare themselves to upskill their problem solving ability which is critical for the successful clearance of Wipro's Selection Process.

This Wipro's online assessment curriculum guides candidate to have a holistic understanding of the various sections of which one will be assessed during the recruitment process.

English Comprehension Test:

This test uses a variety of internationally standardized resources for framing questions aimed at determining your ability to understand:

- ☐ The written text
- ☐ The spoken word and
- ☐ Communicate effectively through written documents

The test broadly covers the following areas:

- ☐ A wide-ranging Vocabulary to cope with general and specific terminology.
- ☐ Syntax and sentence structure, the incorrect use of which distorts meaning and becomes a communication hurdle.
- ☐ Comprehension exercises designed to test a candidate's ability to read fluently and understand correctly.
- ☐ The ability to understand and use suitable phrases, which enrich the meaning of what, is conveyed.

English

Grammar

Sentence structure understanding
Usage of articles, Preposition,
Conjunction, correct tense
Usage of verbs, adjectives,
adverbs

- Fill in the blanks
- Error identification
- Error correction

Functional Vocabulary

Commonly used words:
Used in newspapers,
Magazines, etc.

Common phrases
used in corporate,
businesses

- Antonyms
- Synonyms
- Antonyms/Synonyms
in context of sentences

Comprehension

Main argument/purpose
of a passage.
Deducing author's tone
and perspective
Attention to detail

- Ordering sentences
- Questions based on a
passage.
- 2 passages, 4 questions
each

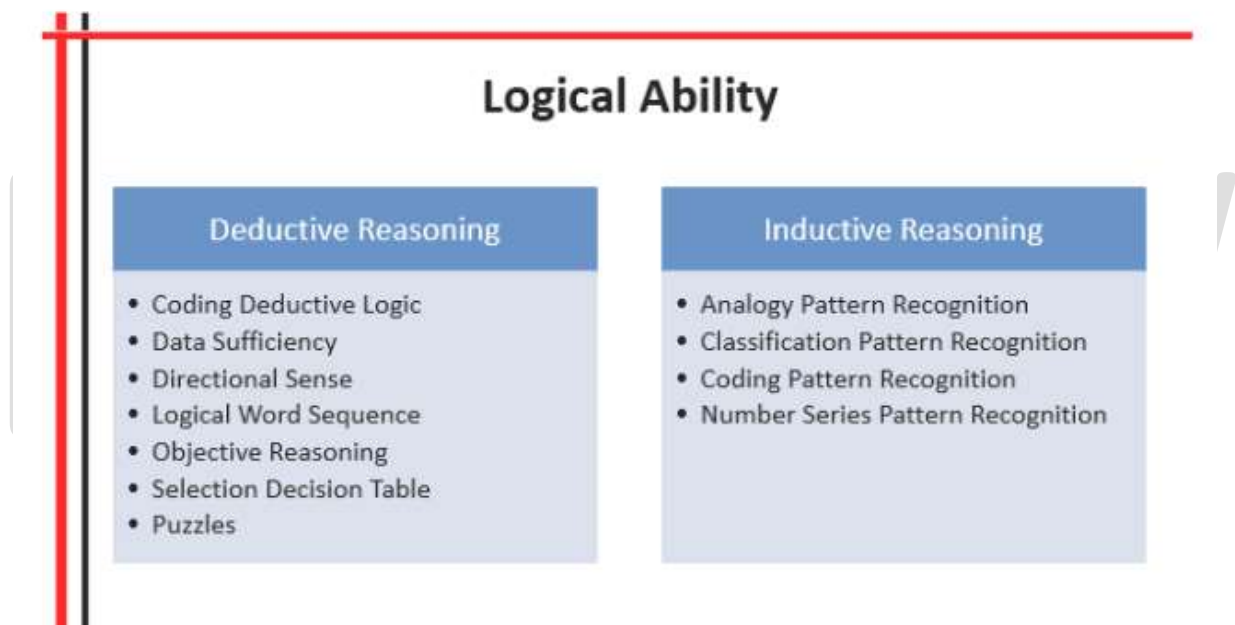
- Comprehend a company document
- Comprehend an email about work-to-do
- Understand articles, new, etc. off the web, etc.

- Write an email to report work done.
- Participate in discussions
- Write an email to a client
- Write reports/technical documentation.

Logical Ability Test:

In this section, candidate is assessed on the ability to interpret things objectively, to be able to perceive and interpret trends to make generalizations and be able to analyze assumptions behind an argument/statement. These abilities are primary for success of a candidate in the industry. Specifically, these are divided into following sections:

- ❓ **Deductive Reasoning:** Assesses the ability to synthesize information and derive conclusions.
- ❓ **Inductive Reasoning:** Assesses the ability to learn by example, imitation or hit-and-trial. This also provides an indication of how creative the individual is.
- ❓ **Abductive Reasoning:** Assesses the critical thinking ability of an individual to see through loopholes in an argument or group of statements.



Quantitative Ability Test:

The Quantitative ability section measures the numerical ability and accuracy in mathematical calculations. The questions range from purely numeric calculations to problems of arithmetic reasoning, percentage analysis and quantitative analysis. Specifically these are divided into following sections:

Basic Mathematics

This section tests whether the candidate has understanding of basic number system, i.e., fractions, decimals, negative, positive, odd, even numbers, rational numbers, etc. The candidate should know how to do basic operations on these numbers, understand concepts of factors/divisibility and have good practice on algebra.

Applied Mathematics

Apart from operations on numbers, the candidate should know how to convert a real-world problem into equations, which could be solved to find an unknown quantity. Students need to be competent in reading and using quantitative data, in understanding quantitative evidence and in applying basic quantitative skills to the solution of real-life problems in order to perform effectively as professionals and citizens. To assess the same, the candidates are tested on Word Problems representing various real world scenarios.

Engineering Mathematics

These are aspects of mathematics needed for Engineering disciplines and analysis of data. This includes permutation-combination, probability and understanding of logarithms.

Quantitative Ability (Technical)

Basic Mathematics	Applied Mathematics	Engineering Mathematics
<ul style="list-style-type: none">• Divisibility• HCF and LCM• Numbers• Decimal Fractions• Power	<ul style="list-style-type: none">• Profit and Loss• Simple and Compound Interest• Time, Speed and Distance• Inverse	<ul style="list-style-type: none">• Logarithms• Permutation and Combinations• Probability

Programming Test:

In this section, candidate is assessed on the programming ability. The assessment allows evaluation of actual programming skills, giving the candidates an opportunity to write the program in an editor, compile and run test cases, all in the assessment environment itself.

The assessment comes with a scientifically designed question bank consisting of a wide range of easy to hard programming problems with smartly designed corner and generic tests cases. It will evaluate your knowledge of algorithms, data structures, concepts like recursion, dynamic memory allocation and modular programming. The compiler supports multiple programming languages such as C, C++, and Java & Python.

- ❑ With a variety of basic, advanced and edge test cases tagged to every problem, the code is checked thoroughly for functional correctness and completeness.
- ❑ Code is also evaluated on its logical correctness that is assessed based on the logic used to write the code. This determines your programming ability

Concepts to be evaluated:

- 1 D Array
- 2 D Array
- Activity Selection Problem
- Array(1D and 2D)
- Banker Algorithm
- Binary tree/binary search tree
- Bit Manipulation
- Character Matching
- Graph
- Graph Traversal Algorithm
- Hash Map
- Math/Logic
- Palindrome
- Pattern Searching
- Priority Queue
- Optimization Algorithm
- Recursion
- Searching
- Sliding Window
- Sorting
- String Manipulation
- String Matching
- Tree Traversal Algorithm

WriteX - English Writing Ability Test:

The English Writing Ability test measures candidate's ability to write effectively and efficiently in English language. It evaluates the quality of candidate's written sample by taking multiple factors into consideration such as grammar, usage, choice of words, mechanics, style, etc.

In this test, the candidate is asked to write an essay on the topic provided. 100-400 word response has to be written.

It also takes into consideration content related aspects such as the candidate's view on the topic, how relevant the essay is to the given topic and how does candidate organize her/his flow of thoughts.

In this test, candidate is assessed based on the following competencies:

- Ability to write grammatically correct sentences
- Ability to write a coherent piece of text
- Ability to use words and expressions to convey the central idea
- Ability to use proper writing style and mechanics
- Ability to structure the text properly and develop it to reach a conclusion

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