

# Exam Pattern & Syllabus

**Exam Pattern** for Class 7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> & 10<sup>th</sup>

Total No. of Questions	Duration	Total Marks	Marking Scheme	Negative Marking
There will be a total of 45 questions.	Exam must be completed in 60 Minutes	180 Marks	For each correct answer, 4 marks will be allocated.	There is no negative marking

## Subjects and Number of Questions

Science : <b>15</b> Questions	Mathematics : <b>15</b> Questions	Mental Ability : <b>15</b> Questions
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### Syllabus for Class 7<sup>th</sup> Studying Students

<b>Physics</b>	Motion and Time, Electric Current and its effects.
<b>Chemistry</b>	Acids, Bases and Salts.
<b>Biology</b>	Nutrition in Plants and Animals, Fibre to Fabric.
<b>Mathematics</b>	Number System, Fractions and Decimals, Simple Equations, Practical Geometry & Lines and Angles, Everyday Mathematics.
<b>Mental Ability</b>	Numbers Series, Alphabet Series, Verbal & Non-Verbal Reasoning - Series, Analogy, Classification, Coding-Decoding, General Logical & Analytical Reasoning, Problems based on Figures, Data Interpretation.

### Syllabus for Class 8<sup>th</sup> Studying Students

<b>Physics</b>	Force, Pressure, Friction, Sound.
<b>Chemistry</b>	Synthetic Fibers & Plastic, Metal & Non-Metals.
<b>Biology</b>	Crop Production & Cell, Micro-organism, Conservation of Plant & Animals.
<b>Mathematics</b>	Rational Numbers, Exponents & Powers, Square & Square Roots, Cube & Cube Roots, Linear Equations in one variable, Algebraic Expression.
<b>Mental Ability</b>	Numbers Series, Alphabet Series, Verbal & Non-Verbal Reasoning - Series, Analogy, Classification, Coding-Decoding, General Logical & Analytical Reasoning, Problems based on Figures, Data Interpretation.

### Syllabus for Class 9<sup>th</sup> Studying Students

<b>Physics</b>	Motion, Force and Work and Energy.
<b>Chemistry</b>	Structure of the Atom, Atoms and Molecules.
<b>Biology</b>	Tissues, Diversity in Living Organisms.
<b>Mathematics</b>	Real Numbers, Polynomials, Triangles, Mensuration, Circles, Quadrilaterals.
<b>Mental Ability</b>	Numbers Series, Alphabet Series, Verbal & Non-Verbal Reasoning - Series, Analogy, Classification, Coding-Decoding, General Logical & Analytical Reasoning, Problems based on Figures, Data Interpretation.

### Syllabus for Class 10<sup>th</sup> Studying Students

<b>Physics</b>	Electric Current and its Effects, Magnetic Effects of Electric Current.
<b>Chemistry</b>	Acids, Bases and Salts, Metals and Non-Metals, Chemical Reactions and Equations.
<b>Biology</b>	Life Processes-Nutrition, Respiration, Transportation, Excretion, Control and Coordination in Animals and Plants.
<b>Mathematics</b>	Real Numbers, Polynomials, Triangles, Pair of Linear Equations in Two Variables, Trigonometric Ratios and Identities.
<b>Mental Ability</b>	Numbers Series, Alphabet Series, Verbal & Non-Verbal Reasoning - Series, Analogy, Classification, Coding-Decoding, General Logical & Analytical Reasoning, Problems based on Figures, Data Interpretation.

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