

Reynott Academics and Intelligence Scholarship Examination

Exam Pattern and Syllabus for RAISE

V, VI, VII, VIII, IX & X Studying Class

No. of Questions - 50

Physics - 5, Chemistry - 5, Biology - 5, Mathematics - 15, Mental Ability - 20

Test Duration- 1 Hrs. (No negative marking)

FOR CLASS V STUDYING STUDENTS

Science: Our universe, Water and its conservation, Safety and first aid, Our environment, Air, Water and its conservation, Our universe, Rock and minerals, Matter, Living and non-living things, Reproduction in plants, Animals, Human body, Food, Health and hygiene

Maths: The Fish Tale, Shapes and Angles, Parts and Wholes, Does it Look the Same?, Can You See the Pattern?, Mapping Your Way, Boxes and Sketches, Area and its Boundary, How many squares, Tenth and hundredths, Area and its boundary, Smart charts, Ways to multiple and divide, How big how heavy

Mental Ability: Verbal & Non Verbal Reasoning: Number and Alphabet Test, Series, Classification, Analogy, Direction Test, Coding and Decoding, Problems Based on Figures.

FOR CLASS VI STUDYING STUDENTS

Mathematics: Knowing Our Numbers, Whole Numbers, Playing With Numbers, Basic Geometrical Shapes, Data Handling, Mensuration

Biology: Food: Where Does It Come From?, Components of Food, Getting to Know Plants, Body Movement

Chemistry: Fibre to Fabric, Sorting Materials and Groups, Separation of Substances, Changes Around Us

Physics: Motion and Measurement of Distances, Light, Shadows and Reflections, Electricity and Circuits, Fun with Magnets.

FOR CLASS VII STUDYING STUDENTS

Physics: Electricity, Fun with Magnets, Measurement, Heat, Light, Universe, Motion & Time, Sound.

Chemistry: Changes Around Us, Acids & Bases, Fibres & Fabric.

Biology: Garbage In Garbage Out, Nutrition, Weather & Climatic Adaptation, Excretion, Body Movement, Respiration, Transportation, Forest - Our Lifeline.

Mathematics: Integers, Rational Numbers, Triangles, Exponents, Ratio and Proportion, Understanding Elementary Shapes, Practical Geometry, Fractions, Lines and Angles, Congruency of Triangles, Algebraic Expression, Basic Geometrical Ideas, Symmetry, Mensuration.

Mental Ability: Number Series, Missing Term in Figure, Coding Decoding, Ranking & Ordering-Test, Alphabet series, Alphabet Test, Mathematical Operations, Mirror Water Image.

FOR CLASS VIII STUDYING STUDENTS

Physics: Force and Pressure, Friction, Sound, Chemical Effects of Electric Current.

Chemistry: Synthetic Fibres and Plastics, Materials: Metals and Non-Metals.

Biology: Crop Production and Management, Microorganisms: Friend and Foe, Conservation of Plants and Animals, Cell - Structure and Functions.

Mathematics: Squares and Square Roots, Exponents, Quadrilaterals, Comparing Quantities, Linear Equations in One Variable, Cubes and Cube Roots, Data Handling, Rational Numbers.

Mental Ability: Verbal & Non Verbal Reasoning: Number and Alphabet Test, Series, Classification, Analogy, Direction Test, Coding and Decoding, Problems Based on Figures.

XI Studying Class (Engineering) - Physics - 10, Chemistry - 10, Maths - 15

XI Studying Class (Medical) - Physics - 15, Chemistry - 15, Biology - 30

Test Duration- 1 Hrs. (No negative marking)

FOR CLASS IX STUDYING STUDENTS

Physics: Motion, Force and Laws of Motion, Gravitation.

Chemistry: Matter in Our Surroundings, Is Matter Around Us Pure?

Biology: Cell: The Fundamental Unit of Life, Tissues.

Mathematics: Number Systems, Factorization of Polynomials, Lines and Angles, Congruency of Triangles, Heron's Formula.

Mental Ability: General Logical Reasoning, Analytical Reasoning, Figure Matrix, Problems based on Figures.

FOR CLASS X STUDYING STUDENTS

Physics: Electricity, Magnetic Effects of Electric Current

Chemistry: Chemical Reactions and Equations, Acids, Bases and Salts, Metals and Non-Metals.

Biology: Life Processes - Nutrition, Respiration, Transportation, Excretion; Control and Coordination in Animals and Plants.

Mathematics: Pair of Linear Equations in Two Variables, Quadratic Equations, Trigonometric Ratios and Identities, Similar Triangles, Real Numbers.

Mental Ability: Verbal & Non Verbal Reasoning – Series, Analogy, Classification, Coding and Decoding, General Logical and Analytical Reasoning, Problems based on Figures, Data Interpretation.

FOR CLASS XI (ENGINEERING) STUDYING STUDENTS

Physics: Physical World and Measurement, Kinematics, Laws of Motion, Work Energy Power, Motion of System of Particles & Rigid Body, SHM, Waves.

Chemistry: Full Syllabus of Class X, Some basic concept of Chemistry (Unit - 1) NCERT XI, Structure of Atom (Unit - 2) NCERT XI, Classification of Elements and Periodicity in Properties (Unit - 3) NCERT XI, Chemical Bonding and Molecular Structure (Unit - 4) NCERT XI, States of Matter (Unit - 5) NCERT XI, Organic Chemistry : Some Basic Principles and Techniques (Unit - 12) NCERT XI.

Mathematics: Sets, Relation and Functions (Elementary Function and their Domain, Range), Trigonometric functions & Solutions of Triangle (including trigonometric equations), Quadratic Equations, Linear Inequalities, Permutations and Combinations, Binomial Theorem, Sequence & Series, Straight Line, Circle.

FOR CLASS XI (MEDICAL) STUDYING STUDENTS

Physics: Rectilinear Motion, Relative Motion, Friction, Circular Motion, Projectile Motion, Newton's Laws of Motion, Work Power Energy, Centre of Mass.

Chemistry: Full Syllabus of Class X, Some basic concept of Chemistry (Unit - 1) NCERT XI, Structure of Atom (Unit - 2) NCERT XI, Classification of Elements and Periodicity in Properties (Unit - 3) NCERT XI, Chemical Bonding and Molecular Structure (Unit-4) NCERT XI, States of Matter (Unit - 5) NCERT XI, Organic Chemistry : Some Basic Principles and Techniques (Unit - 12) NCERT XI.

Botany: Cell Biology, Plant Diversity, Plant Morphology, Living World, Plant Kingdom, Plant Anatomy.

Zoology: Animal Kingdom – General Account & Non Chordates including Protozoa, Animal Kingdom - Chordates, Biomolecules, Digestion & Absorption, Breathing and Exchange of Gases, Structural Organization in Animals.