

COMPLETE SYLLABUS BY CLASS & SUBJECT

1	English	Comprehensions, Alphabetical Order, Words: Their Meanings and Opposites, Identification of thing and Objects, Numbers and Gender Change, Answering General Question, Nouns (Elementary), Pronouns (Elementary), Verbs, Odd One Out, Spelling Test
2	Mathematics	Back and Forth Counting, Ones, Tens and Hundred, Addition, Subtraction, Comparisons, Time and Calendar, Money, Geometrical Shapes and measurements, Applied Mathematics, and Reasoning
3	Science	Living and Non-living Things, Plants, Animals, Human Body, Good Habits and Safety Rules, Air, Water and its resources, Our Family and neighbourhood, Food Clothes, Reasoning
4	AI	What is a computer vs a human (senses, feelings, thinking). Simple idea of machines that “follow instructions” (traffic lights, washing machine, voice assistant). AI in daily life: phone face unlock, cartoon filters, voice assistants (listen–respond story). Good vs bad use: asking help vs copying in exams, screen-time basics
5	GK	Means of Transport, Buildings and monuments, Me and My Surroundings, Plants and Animals, India and the World, Science and Technology, Language and Literature, Earth and Its Environment, Sports, Life Skills, Important days, Current Affairs
6	Hindi	Varna Parichay (Vowels - Swar & Consonants - Vyanjan), Matra (Short & Long vowels), Shabdkosh (Basic vocabulary), Simple Kahaniyan, Rang Parichay (Colors), Janwar Pariwarand Poultry, Sankhya (Numbers 1-10), Akshar Ghosna (Letter pronunciation), Saral Vaky Rachna (Simple sentence formation)



Class 2nd

English

1	English	Comprehensions, Alphabetical Order, Words: Their Meanings and Opposites, Identification of thing and Objects, Numbers and Gender Change, Answering General Question, Nouns (Elementary), Pronouns (Elementary), Verbs, Odd One Out, Spelling Test
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Mathematics

2 Mathematics	Ones, Tens, Hundreds Thousands, Computation Operations (Add, Subtract, Multiply, Divide), Comparison, Measurement, Time, Calendar, Temperature, Unit, Money, Geometrical figure (Lines, Shapes and Solids), and Reasoning
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Science

3 Science Living and Non-living things, Plants Animals Kingdom, Human Body, Food, Housing and Clothing, Our Surroundings, Good Habits and Safety Rules, Transport and Communication, Our Environment, Our Universe, and Reasoning

AI

AI Refresh: machines vs smart machines (AI). Examples of perception: “computer can see, hear, speak” using camera, mic, speaker. Simple patterns: grouping pictures (animals vs vehicles) and understanding that computers also group. Safe and kind use of AI toys/apps, asking adults before sharing photos or names.

GK

GK Me and My Surroundings, Plants and Animals, India and the World, Science and Technology, Language and Literature, Earth and Its Environment, Books and Authors, Transport and Communication, Sports, Important Dates, Dresses of India, Life Skills, Current Affairs

Hindi

6	Hindi	Varna Parichay (Complete alphabet), Matra aur Anunasik, Visarg Parichay, Pushti Vyanjan (Voiced consonants), Shabd-kosh (Vocabulary expansion), Sangopn Kahaniyan (Stories with morals), Sankhya (Numbers 1-20), Badhe Akshar (Combination of letters), Saral Vaky Rachna (Sentence building with simple words), Parivarik Rishte (Family relations)
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Class 3rd

1

English

Comprehension, Grammar, Understanding through definition and Examples, Synonyms and Antonyms, Gender Number, Idioms One Word Substitution, General Questions Spellings Test, Jumbled words, Sentence Error Finding, Writing Section

2

Mathematics

Numerals, Number names and Number Sense, Computation Operations, Fractions, Unitary Methods, Length, Weight, Capacity, Temperature, Time and Calendar, Money, Geometry, Data Handling and Reasoning

3

Science

Plants Kingdoms, Animal Kingdoms, Birds, Housing, Clothing and Occupation, Our Safety and First aid, Human Body, Matter and Motions and Transport, Our Environment, Our Universe, Natural Resources and Reasoning

4

AI

AI vs normal programs in very simple terms: rules vs learning from many examples. Pattern recognition activities (shapes, numbers, colors) as base for AI thinking. Everyday AI systems: recommendation (cartoons, music), translations, keyboard suggestions. Basic digital citizenship: what to share online, simple idea of privacy.

5

GK

Me and My Surroundings, India and the World, Science and Technology, Language and Literature, Earth and Its Environment, Ocean, Transport and Communication, Sports and associated players, Life Skills, Historical Buildings, Solar System, Flags of different Countries, Current Affairs and Reasoning

6

Hindi

Varna Aur Matra Gyaan, Chunihandhe Vyanjan (Unvoiced & Voiced consonants), Samyukt Vyanjan (Conjunct consonants), Shabd-kosh aur Sangopn Shabd (Antonyms & Synonyms), Pad Parichay (Parts of speech - Samanya roop), Rachnatmak Anuched (Small paragraphs), Sankhya (Numbers 1-100), Taarikh aur Samay (Dates and time), Saral Kahani Lekhan (Story writing), Pichha Prashna (Question formation)



Class 4th

English

English Comprehension, Gender, Singular-Plural, Vocabulary (Synonyms, Antonyms, Idioms, One word Substitution), Error Finding, Tense, General Question and Spelling Test, Grammar, Jumble words, Type of Sentence, Writing Section

Mathematics

2 Mathematics Numeral and Number Sense, Computation Operations, Fractions, Decimals, Time, Money, Geometry, Measurements (Perimeter and Area of Various Shapes), Data Handling, Unitary Method and Reasoning

Science

3 Science Functioning of Human Body, Plants, Animals, Measurement, Work, Force and Energy, Our Environment, Matter and Materials, Earth and Universe and Reasoning

AI

AI Perception big idea: images as tiny colored squares (pixels) and sound as waves. Simple decision rules: if-then, decision trees with real-life examples (weather, games). AI in transport, health, education – story-based case studies. Responsible use: AI can make mistakes; always check with adults/teachers.

Social Studies

5 Social Studies Our Country – Physical and Political Divisions, Our Resources and Climate, Rich Heritage, People Who Made a Difference, Constitution and Government, Our History, Earth and Environment, Transport and Communication

GK

GK Our Body and Health, Profession, religions, Famous sites of the world, India and the World, Science and Technology, Environment and its Conservation, Language and Literature, Entertainment, Sports, Life Skills, Countries and their capitals and currencies, Current Affairs and Reasoning

Hindi

Hindi Sanpurn Varna Vigyan (Complete alphabet knowledge), Samyukt Vyanjan Vigyan (Consonant clusters), Shabd Bhandaar Vistar (Vocabulary expansion - 500+ words), Vilom Shabd (Antonyms), Samantarthi Shabd (Synonyms), Pad Parichay Vistar (Extended parts of speech), Kavya Parichay



Class 5th

1	English	Comprehension, Identify and Distinguish, Synonyms and Antonyms, Classification and Analogies, Spellings, One word Substitution, Error Finding Word order, Parts of Speech (Articles, Prepositions, Conjunctions), Tenses Modals, Voices and Narration, Jumbled Word Improvement, Writing Section
2	Mathematics	Numeral and Number Sense, Computation Operations, Fractions, Decimals, Time, Money, Geometry, Measurements (Perimeter and Area of Various Shapes), Data Handling, Unitary Method and Reasoning
3	Science	Our Environment, Animals, Human Body and Nutrition, Plants, Housing, Natural Resources, Natural Calamities, Earth and Universe, Matter, Work, Force and Energy, Light and Sound, Verbal and Non-Verbal Reasoning
4	AI	Data as examples AI learns from (pictures, text, clicks, marks). Labelling: how tagged data helps AI recognize objects or emotions (basic). Intro to bias: if data is incomplete/unfair, AI can be unfair (simple stories). AI for social good: environment, safety, health –short project idea discussion.
5	Social Studies	Human Body, India and the World, Science and Technology, Environment and its Conservation, Language and Literature, Entertainment, Sports, Life Skills, Mountain Chain, Flags of different countries, their currencies, and capitals, Waterways Dams, Current Affairs
6	GK	Human Body, India and the World, Science and Technology, Environment and its Conservation, Language and Literature, Entertainment, Sports, Life Skills, Mountain Chain, Flags of different countries, their currencies, and capitals, Waterways Dams, Current Affairs
7	Hindi	Varna Vigyan (Advanced phonetics), Matra Gyaan (Comprehensive matra usage), Sangopn Shabd (Synonyms - expanded), Vilom Shabd (Antonyms - expanded), Pad Parichay (Noun, Pronoun, Verb, Adjective, Adverb - basic), Vakya Rachna (Sentence construction with rules), Muhavre aur Lokoktiyan (Idioms & Phrasal equivalents), Kahani Lekhan (Story composition), Anuched Paraphrasing, Patra aur Anuchched Lekhan (Formal letters and passages)
9	Aptitude	Analogies (word-based) Classification and categorization Odd one out Series completion Coding-decoding (simple) Pattern recognition Mirror and water images Figure series Paper folding basics Cubes (basic) Number patterns Arithmetic progression Counting skills Simple mathematical riddles Data arrangement Simple deductions Puzzle solving (beginner)

Class 6th

1	English	Comprehension, Classification and analogy, Distinguishing between Sentences, Spelling Test, Idioms One word substitution, Synonyms, Antonyms, Conjunction and Elementary idea of Tenses, Parts of Speech, Article, Prepositions Determiners, Voice and Narration, Jumbled word and Sentence, Writing Section
2	Mathematics	Numeral and Number Sense, Computation Operations, Factors and Multiples, Fractions and Decimals, Measurement, Geometry, Time and Distance, Percentage, Ratio and Proportion, Data Handling and Reasoning



3	Science	Food and its Components, Fibre to Fabric, Sorting and Separation of Materials, Changes Around Us, The World of Livings (Characteristics of Living Beings, Parts of Plants), Body Movements, Motion and Measurement of Distances, Light, Shadows and Reflections, Electricity and Magnets, Our Environment, Verbal and Non-Verbal Reasoning
4	AI	Formal definition: AI as systems that perceive, reason, learn, and act. Domains: computer vision, natural language, speech, recommendation, robotics (overview). Computational thinking: decomposition, patterns, abstraction, simple algorithms in everyday tasks. AI in daily life in India: UPI fraud detection, language translation, maps, e-commerce. Ethics basics: privacy, consent, digital footprint, respect for creators.
5	Social Studies	History: Studying the Past, The Early Humans, The First Cities and Vedic Age, The Post-Mauryan Period, New Empires and Kingdoms, Culture and Science, The Early Kingdoms and Ideas, The Maurya - The First Empire, Life in Towns and Villages. Geography: Planet Earth Its Major Domains and Landforms, Globes and Maps, Our Country – India (Physical and Political Divisions, Climate, Vegetation and Wildlife) Social and Political Life: Diversity and Discrimination, Government and Key Elements of a Democratic Government, Local Government and Administration, Livelihoods – Rural and Urban
6	GK	Plants and Animals, First in India and the World, History of India and the World, Science and Technology, Earth and Its Environment, Universe, Language and Literature, Entertainment, Awards, Social Studies, Sports, Current Affairs, Life Skills, Highest Honour of the Countries
7	Hindi	Sanpurn Varna Vigyan aur Matra Nyun (Complete alphabet with advanced matra usage), Anunaasik, Visarg, Chandrabindu Parichay, Shabd Bhandaar - Samnanarthi aur Vilomshabd (Synonyms & Antonyms - 1000+ words), Pad Parichay Samagra (All parts of speech), Vakya Bhed (Types of sentences), Rachnatmak Anuched (Descriptive paragraphs), Kahani Aavishkar (Creative story writing), Pariprekshya Anuprayog (Contextual usage), Patra Lekhan Vidha (Various letter formats)
8	Aptitude	Advanced analogies Coding-decoding (substitution) Blood relations Alphanumeric series Pattern analysis Mirror and water images Figure series with transformation Dice problems Figure matrices Number series (arithmetic and geometric) Percentages and ratios (basic) Number puzzles Statement analysis Simple deduction Basic seating arrangements

Class 7th

1	English	Comprehension, Distinguish and Identification, Inferring information, Synonyms, Idioms, Classification and Analogies, Spellings, One word Substitution Word order, Parts of Speech (Articles, Prepositions ,Conjunctions), Tenses Modals, Voices and Narration, Jumbled Word Improvement, Writing Section Antonyms, homonyms , Error Finding
2	Mathematics	Number system and operations, Exponents and Powers, Algebraic Expressions, Linear Equations, Comparing Quantities (Ratio and Proportion, Percentage, C.I, S.I, Loss Profit, etc), Geometry (Lines and Angles, Triangle, Quadrilaterals, Solid Shapes), Mensuration (Perimeter and Area), Data Handling, Verbal and Non-Verbal Reasoning
3	Science	Crop Production and Microorganisms, Materials (Synthetic Fibres and Plastics, Metals and Non-metals), Coal and Petroleum (Combustion and Flame), Conservation of Plants and Animals, Cell, Reproduction and Adolescence, Force, Friction, Sound and Pressure, Chemical Effects of Electric Current and Light, Solar System and Some Natural Phenomena, Pollution of Air and Water, Verbal and Non-Verbal Reasoning
4	AI	AI vs Machine Learning vs traditional programming (conceptual, no math detail). Learning from data: training vs testing examples; overfitting as “memorising”. Simple ML pipelines using no-code tools (image or text classification demos). Deeper ethics: bias, transparency, impact on jobs; small debate/writing activity.



5	Social Studies	History: In Europe, The Russian Revolution, Rise of Hitler, Forest Society and Pastoralists in the Modern World, The French Revolution, Socialism Geography: India – Physical Features and Climate, Drainage, Natural Vegetation and Wildlife, Population Social and Political Life: What why is Democracy ? Constitution al Design and Democratic Rights, Elections and Working of Institutions Economics: The Story of Village Palampur, People as Resource, Poverty and Food Security in India
6	GK	Plants and Animals, History of India and the World, First in Different Fields, Science and Technology, Earth and its Environment, Universe, Language and Literature, Entertainment, Social Studies, Economics, Capital Currencies, Books and Authors, Awards, Organisations of the World, Sports, Current Affairs, Life Skills
7	Hindi	Varna Vigyan (Advanced letter system), Samyukt Vyanjan aur Vigyapti (Consonant clusters & special characters), Shabd Vichaar (Etymology & word formation), Vakya Vishleshna (Sentence analysis), Pad Parichay Shuddhi (Correct usage of all parts of speech), Bhaav Avdhaarana (Emotional understanding in text), Rachnatmak Sthaan (Creative composition), Lekh Lekhan Vidha (Various writing formats), Upagamit Khand Pathan (Comprehensi on passages), Muhavron aur Lokukti Sangrah (Idioms & expressions - 500+ collection)
8	Aptitude	Complex analogies Coding-decoding patterns Blood relations (extended) Artificial language translation Pattern recognition (advanced) Paper folding (complex designs) Cubes and dice (side relationships) 3D shape visualization Figure matrices (3×3) Multiple pattern recognition Percentages, ratios, proportions Sequence and series Basic statistics Statement and conclusions Syllogism (basic) Linear seating arrangements Conditional statements

Class 8th

1	English	Comprehension , Classification and Analogy, Distinguishing between Facts and Opinion, Synonyms, Antonyms, Homonyms, Idioms Phrasal Verbs, Jumbled Words Sentences, Spellings, grammar (Parts of Speech, Articles, Prepositions, Conjunctions, Determiners), Voices and Narrations, Inferring Information, Judging of Sentence, Spelling Test, One word Substitution, Error Finding and Sentence Improvement, Writing Section
2	Mathematics	Number System and Operations, Squares and Cube Roots, Exponents, Comparing Quantities (Ratio and Proportion, Percentage, C.I, S.I, Loss Profit, etc), Algebraic Expressions and Identities, Linear Equations in One Variable, Geometry (Quadrilaterals, Solid Shapes, Lines and Angles), Mensuration, Data Handling, Ration and Proportions, Factorisation, Introduction to Graphs, Playing with Numbers, Verbal and Non-Verbal Reasoning
3	Science	Heat, Motion and Time, Electric Current and its Effects, Winds, Storms and Cyclones, Light, Acids, Bases and Salts, Physical and Chemical Changes, Weather, Climate and Adaptations of Animals, Fibre to Fabric, Nutrition in Plants and Animals, Life Process (Respiration in Organisms, Reproduction in Plants), Natural Resources and Their Conservation, Verbal and Non-Verbal Reasoning
4	AI	AI project cycle: problem scoping, data collection, model building, evaluation, deployment (conceptual). Data quality: noisy data, balanced data, basic idea of train/validation/test. Introduction to simple coding blocks or visual tools for AI (Scratch-like / block AI tools). AI & society: misinformation, deepfakes, echo chambers, safe information habits.
5	Social Studies	History: Modern India-Sources and Significance, Education and British Rule, Women, Caste and Reform, Freedom Struggle in India, India After Independence, The Establishment of Company Power, Rural Life and Tribal Societies, Crafts and Industries, The Revolt of 1857-58 Geography: Land, Soil, Water, Natural Vegetation and Wildlife Resources, Mineral, Power and Human Resources, Agriculture and Industries Social and Political Life: The Indian Constitution and Secularism, Parliamentary Government and Economic Presence of the Government, The Judiciary, Social Justice and The Marginalised



6

GK

History of India and the World, First in different Fields, Science and Technology, Earth and its Environment, Universe, Plants and Animals, Language and Literature, Entertainment, Social Studies, Economics, Capital Currencies, Books and Authors, Awards, Organisations of world, Sports, Current Affairs, Life Skills

7

Hindi

Varna Pranali Sudhaar (Correct letter system application), Shabd Vigyan aur Nirmaan (Word science & formation), Alochanatmak Rachna (Analytical composition), Anuched Parikshna (Passage analysis with deep understanding), Pad Parichay Prabandh (Comprehensive parts of speech), Vakya Bhed aur Sudhar (Sentence types & correction), Rachnatmak Sahitya Parichay (Creative writing & literature), Vyavaharik Patra (Formal & business letters), Vichaar Samkalan (Idea compilation), Kavya aur Gadya Parichay (Poetry & prose understanding)

8

Aptitude

Advanced analogies Complex coding-decoding Blood relations (intricate) Critical reasoning Multi-dimensional patterns Paper folding and cutting (advanced) Cubes unfolding 3D visualization Figure matrices Complex number series Advanced percentages and ratios Arithmetic word problems Statistics (mean, median, mode) Data interpretation Multiple conclusions Syllogism (complex) Advanced puzzle solving Circular seating arrangements Ranking problems

Class 9th

1

English

Comprehension, Synonyms, Antonyms, Homonyms, Classification and Analogy, Spellings, Nouns, Pronouns, Verbs, Adverbs, Adjectives, Articles, Prepositions, Conjunctions, Jumbled words, Voices, Narrations, Modals, Phrasal verbs, Idioms, One word, Error Finding, Sentence Improvement, Filler, Sequence of Sentence, Judging of Sentence, Writing Section

2

Mathematics

Number Systems, Algebra Coordinate Geometry, Linear Equations in Two Variables, Geometry (Lines and Angles, Triangles, Quadrilaterals, Circle), Surface Areas and Volumes, Statistics, Probability, Comparing Quantities (Ratio and Proportion, Percentage, C.I, S.I, Loss Profit, etc.), Verbal and Non-Verbal Reasoning

3

Science

Force and Laws of Motion, Gravitation, Work, Energy and Sound, Matter and Surrounding, Reproduction in Plants, The Atom and Molecule, Cell and Tissues, Diversity in Living Organisms, Why Do We Fall Ill, Natural Resources, Improvement in Food Resources, Verbal and Non-Verbal Reasoning

4

AI

AI system components: data, model, objective, feedback loop. Types of ML (conceptual): supervised, unsupervised, reinforcement – with non-technical examples. Introduction to Python/programming syntax for AI (variables, loops, conditionals, lists). Case studies: recommendation, spam detection, fraud detection, language translation. Stronger ethics and policy: data protection, consent, basic global AI principles.

5

Social Studies

History: Globalization and Industrialisation, Print Culture, The Modern World, Nationalism in Europe and India Geography: Resources and Development, Forest, Wildlife and Water Resources, Agriculture and Industries, Minerals and Energy Resources, Life Lines of National Economy Social and Political Life: Power Sharing and Federalism, Democracy, Gender, Religion and Caste, Popular Struggles and Movements, Political Parties, Outcomes and Challenges of Democracy Economics: Sectors of the Indian Economy and Development, Money and Credit, Globalization and Consumer Rights



6

GK

History of India and the World, First in different Fields, Science and Technology, Earth and its Environment, Universe, Plants and Animals, Language and Literature, Entertainment, Social Studies, Economics, Capital Currencies, Books and Authors, Awards, Organisations of world, Sports, Current Affairs, Life Skills

7

Hindi

Vyakran Sampoorna (Complete grammar including tenses), Kaal Nirdharan (Tense identification & usage), Shabd-Vritti aur Upyog (Word application in context), Anuvad Kaushal (Translation skills), Alochanatmak Pathan (Critical reading comprehension), Sashay Parichay (Conditional & complex sentences), Anuched Rachna Vidya (Paragraph construction with thesis), Likha Abhivyakti (Written expression - essays), Sampark Samagri Lekhan (Communication writing), Sahitya Vishleshan (Literary analysis)

8

Aptitude

Complex analogies Advanced coding-decoding Blood relations (extremely intricate) Critical thinking and argument evaluation Reading comprehension with inference Advanced pattern completion Complex figure transformations Paper folding and unfolding (advanced) 3D visualization and perspective Complex figure matrices Venn diagrams Complex number series Advanced percentages and proportions Number system (divisibility, LCM, HCF) Statistics and data interpretation Profit and loss calculations Basic probability

Class 10th

1

English

Comprehension, Synonyms, Antonyms, Homonyms, Classification and Analogy, Spellings, Grammar (Part of Speech, Articles, Prepositions, Conjunctions, Punctuations), Jumbled words, Voices, Narrations, Modals, Phrasal verbs, Idioms, One word, Error Finding, Sentence Improvement, Filler, Sequence of Sentence, Judging of Sentence, Writing Section

2

Mathematics

Real Numbers, Polynomials, Pair of Linear Equations in Two Variables, Algebraic Expression, Sequence and Series, Coordinate Geometry (Distance Section formula), Introduction Some Applications of Trigonometry, Geometry (Triangles, Circles, Quadrilaterals), Mensuration (Areas Related to Circles, Surface Areas and Volumes), Statistics, Probability, Verbal and Non-Verbal Reasoning

3

Science

Chemical Reactions and Acids, Bases and Salts, Metals and Non-metals, Carbon and Its Compounds, Periodic Classification of Elements, Life Processes, Reproduction, Control and Coordination, Heredity and Evolution, Light and Human Eye, Electricity and Magnetic Effects of Electric Current, Sources of Energy and Natural Resources, Our Environment, Verbal and Non-Verbal Reasoning

4

AI

Deeper ML concepts: features, labels, accuracy, basic metrics (precision/recall idea, not formulas). Overview of key techniques: decision trees, clustering, simple neural networks conceptually. Intro to core domains: Computer vision (image classification, detection) Natural language processing (text classification, chatbots) Simple AI + robotics/control examples AI project: end-to-end mini-project using Python or no-code tool on real-world school/community problem, including ethical reflection.

5

Social Studies

History: Globalization and Industrialisation, Print Culture, The Modern World, Nationalism in Europe and India Geography: Resources and Development, Forest, Wildlife and Water Resources, Agriculture and Industries, Minerals and Energy Resources, Life Lines of National Economy Social and Political Life: Power Sharing and Federalism, Democracy, Gender, Religion and Caste, Popular Struggles and Movements, Political Parties, Outcomes and Challenges of Democracy Economics: Sectors of the Indian Economy and Development, Money and Credit, Globalization and Consumer Rights



6

GK

History of India and the World, First in different Fields, Science and Technology, Earth and its Environment, Universe, Plants and Animals, Language and Literature, Entertainment, Social Studies, Economics, Capital Currencies, Books and Authors, Awards, Organisations of world, Sports, Current Affairs, Life Skills

7

Hindi

Vyakran Paripurnata (Complete grammar mastery), Kaal aur Karak (Tenses & case system), Vakya Vidhaan (Sentence structure rules), Anuvad Dakshat (Advanced translation), Alochanatmak Pathan (Analytical comprehension - unseen passages), Rachnatmak Lakshna (Writing with specific features), Niyojn Patra (Job application), Anukul Sambhashna (Formal conversations), Prabamdh Lekhan (Essay writing on social topics), Pratham Vyaktikaran (First person narrative), Sampark Paripatra (Circular communication), Sahitya-Samiksha (Literature review & criticism)

8

Aptitude

Highly sophisticated analogies Advanced cipher systems Complex blood relations Advanced critical thinking Reading comprehension with advanced inference Cause-effect relationships Advanced pattern prediction Multiple transformations Very advanced paper folding and cutting Complex 3D visualization Advanced figure matrices Venn diagrams and set theory Mathematical sequences in figures Complex number series Advanced number theory Advanced statistics and correlation Complex data interpretation Compound interest (advanced) Profit, loss, and markup Probability (intermediate) Time, distance, and speed Work completion problems

Class 11th

1

Mathematics

(Part of PCM Olympiad)

Sets, Relations and Functions, Logarithms, Complex Numbers Quadratic Equations, Linear Inequalities, Sequences and Series, Trigonometry, Straight Lines, Conic Sections, Permutations and Combinations, Binomial Theorem, Statistics, Limits and Derivatives, Probability, Introduction to 3-D Geometry, Reasoning

2

Physics

(Part of PCM/PCB Olympiad)

Units and Measurements, Mechanics, Properties of Matter, Heat and Thermodynamics, Oscillations, Waves

3

Chemistry

(Part of PCM/PCB Olympiad)

Some Basic Concepts of Chemistry, Structure of Atom, Classification of Elements and Periodicity in Properties, Chemical Bonding and Molecular Structure, Thermodynamics, Equilibrium, Redox Reactions, Organic Chemistry - Some Basic Principles and Techniques, Hydrocarbons

4

Biology

(Part of PCB Olympiad)

Diversity in the Living World, Structural Organisation in Plants and Animals, Cell: Structure and Functions, Plant Physiology, Human Physiology

5

Commerce

Economics: Introductory Microeconomics, Statistics for Economics Business: Nature and Purpose of Business, Forms of Business Organisations, Public, Private and Global Enterprises, Business Services, Emerging Modes of Business, Social Responsibility of Business and Business Ethics, Sources of Business Finance, Small Business, Internal Trade, International Business Accountancy: Theoretical Framework, Accounting Process, Financial Statements of Sole Proprietorship from Complete and Incomplete Records



Class 12th



1 Mathematics

(Part of PCM Olympiad)

Relations and Functions, Inverse Trigonometric Functions, Matrices and Determinants, Continuity and Differentiability, Application of Derivatives, Integrals, Application of Integrals, Differential Equations, Vector Algebra, Three Dimensional Geometry, Probability, Linear Programming, Reasoning



Physics

(Part of PCM/PCB Olympiad)

Electricity and Magnetism, Electromagnetic Induction, Alternating current, Electromagnetic waves, Optics, Modern Physics, Semiconductor Electronics

3 Chemistry

(Part of PCM/PCB Olympiad)

Solutions, Electrochemistry, Chemical Kinetics, The d- and f-Block Elements, Coordination Compounds, Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers, Aldehydes, Ketones and Carboxylic Acids, Amines, Biomolecules



Biology

(Part of PCB Olympiad)

Reproduction, Genetics and Evolution, Biology in Human Welfare, Biotechnology, Ecology

5 Commerce

Economics: Introductory Macroeconomics, Indian Economic Development Business: Nature and Significance of Management, Principles of Management, Business Environment, Planning, Organising, Staffing, Directing, Controlling, Financial Management, Financial Markets, Marketing Management, Consumer Protection Accountancy: Accounting for Partnership Firms, Accounting for Companies, Analysis of Financial Statements, Cash Flow Statement

