



SYLLABUS BOOKLET

Class I-XII



**MATHEMATICS
OLYMPIAD EXAM**



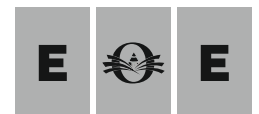
**SCIENCE
OLYMPIAD EXAM**



**SOCIAL SCIENCE/EVS
OLYMPIAD EXAM**



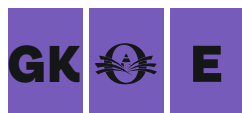
**HINDI
OLYMPIAD EXAM**



**ENGLISH
OLYMPIAD EXAM**



**COMMERCE
OLYMPIAD EXAM**



**GENERAL KNOWLEDGE
OLYMPIAD EXAM**



**APTITUDE & REASONING
OLYMPIAD EXAM**



**STEM
OLYMPIAD EXAM**



**COMPUTER/AI
OLYMPIAD EXAM**

SYLLABUS FOR CLASS I

SR. No.	Subjects	Contents	
1.	Mathematics	<ul style="list-style-type: none"> Numbers 1-100 and Number Patterns Basic Shapes and their Properties Patterns and Sequences 	<ul style="list-style-type: none"> Addition and Subtraction within 20 Measurement (Length, Weight, and Capacity) Introduction to Simple Multiplication (groups of)
2.	EVS	<ul style="list-style-type: none"> Our Surroundings and Natural Resources Basic Concepts of Air, Water, and Soil Weather Patterns and their Impact 	<ul style="list-style-type: none"> Conservation of Resources Introduction to Renewable and Non-renewable Resources Plant and Animal Adaptations
3.	English	<ul style="list-style-type: none"> Alphabet Recognition and Phonics Reading Comprehension (Simple Stories) Basic Grammar Concepts (Nouns, Verbs, Adjectives) 	<ul style="list-style-type: none"> Basic Sight Words and Vocabulary Building Formation of Simple Sentences Storytelling and Sequencing
4.	General Knowledge	<ul style="list-style-type: none"> Animals Transportation Colors 	<ul style="list-style-type: none"> Fruits & Vegetables Seasons Shapes

SYLLABUS FOR CLASS II

SR. No.	Subjects	Contents	
1.	Mathematics	<ul style="list-style-type: none"> Numbers up to 1000 and Number Patterns Multiplication and Division (basic concepts) Measurement (Length, Weight, Volume) 	<ul style="list-style-type: none"> Addition and Subtraction within 100 Basic Geometry (Shapes, Patterns) Time (Reading Clocks and Understanding Time Intervals)
2.	EVS	<ul style="list-style-type: none"> Our Natural Surroundings and Ecosystem Solar System and Planets Plants and Animals in Different Habitats 	<ul style="list-style-type: none"> Conservation of Resources (Water, Air and Soil) Importance of Recycling Impact of Human Activities on the Environment
3.	English	<ul style="list-style-type: none"> Phonics and Reading Fluency Sentence Formation and Basic Grammar Creative Writing (short sentences and stories) 	<ul style="list-style-type: none"> Vocabulary Building and Word Recognition Comprehension of Simple Stories Speaking and Listening Skills
4.	General Knowledge	<ul style="list-style-type: none"> Countries & Flags Famous Inventors & Discoveries Basic Astronomy 	<ul style="list-style-type: none"> Plants & Trees Landmarks & Monuments Animals & Habitats

SYLLABUS FOR CLASS III

SR. No.	Subjects	Contents	
SCHOLASTIC SUBJECTS			
1.	Mathematics	<ul style="list-style-type: none">Numbers up to 1000 and Number PatternsMultiplication and Division (basic concepts)Measurement (Length, Weight, Volume, Time)	<ul style="list-style-type: none">Addition and Subtraction within 1000Basic Geometry (Shapes, Angles, Symmetry)Introduction to Fractions and Decimals
2.	Science	<ul style="list-style-type: none">Plant Life Cycle and Parts of a FlowerProperties of Matter (Solid, Liquid, Gas)Basic Concepts of Light and Sound	<ul style="list-style-type: none">Animal Classification and AdaptationsEarth and its Features (Landforms, Water Bodies)Simple Experiments on Magnetism and Electricity
3.	SST	<ul style="list-style-type: none">Our Environment and EcosystemsSolar System and PlanetsWeather Patterns and Climate	<ul style="list-style-type: none">Conservation of Resources (water, air, and soil)Importance of BiodiversityImpact of Human Activities on Nature
4.	English	<ul style="list-style-type: none">Phonics and Reading ComprehensionSentence Structure and GrammarComprehension of Longer Texts	<ul style="list-style-type: none">Vocabulary Building and Word UsageCreative Writing (short stories, poems)Speaking and Listening Skills
5.	Hindi	<ul style="list-style-type: none">स्वर और व्यंजनसमानार्थक शब्दविपरीत शब्द	<ul style="list-style-type: none">पत्र लेखनपद्य और गद्यकहानी लेखन

CO-SCHOLASTIC SUBJECTS			
6.	STEM	<ul style="list-style-type: none"> • Exploration of Simple Machines and Their Functions • Engineering Design and Building Structures • Scientific Inquiry and Experimental Design 	<ul style="list-style-type: none"> • Robotics Concepts (basic programming) • Electricity and Circuits (basic principles) • Introduction to Environmental Engineering
7.	General Knowledge	<ul style="list-style-type: none"> • World Geography and Continents • Flags and Capitals of Countries • Knowledge of Wildlife and Conservation 	<ul style="list-style-type: none"> • Famous Personalities and Historical Events • Cultural Diversity and Traditions • Current Affairs for Children
8.	Computer	<ul style="list-style-type: none"> • Understanding Computer Hardware and Software • Word Processing Skills (typing, formatting) • Introduction to Spreadsheets and Data Representation 	<ul style="list-style-type: none"> • Basic Coding Concepts (sequencing, loops) • Internet Safety and Cyber Ethics • Basic Understanding of Algorithms
9.	Aptitude & Reasoning	<ul style="list-style-type: none"> • Patterns, Series, and Sequences • Logical Reasoning (e.g., solving puzzles) • Critical Thinking Skills 	<ul style="list-style-type: none"> • Analogy and Classification • Mathematical Reasoning (word problems) • Problem-solving Strategies

SYLLABUS FOR CLASS IV

SR. No.	Subjects	Contents	
SCHOLASTIC SUBJECTS			
1.	Mathematics	<ul style="list-style-type: none">• Numbers up to 10,000 and Number Patterns• Fractions and Decimals• Measurement (Length, Weight, Volume, Time)	<ul style="list-style-type: none">• Addition, Subtraction, Multiplication, and Division• Geometry (Shapes, Angles, Symmetry)• Problem-solving with Multiple Operations
2.	Science	<ul style="list-style-type: none">• Human Body Systems and Functions• States of Matter (Solid, Liquid, Gas)• Sound and Light Waves	<ul style="list-style-type: none">• Animal Behavior and Adaptations• Earth's Resources (Renewable and Non renewable)• Simple Machines and their Applications
3.	SST	<ul style="list-style-type: none">• Ecosystems and Biodiversity• Weather Patterns and Climate Change• Environmental Impact Assessment	<ul style="list-style-type: none">• Conservation of Natural Resources• Earth's Atmosphere and Oceans• Sustainable Practices and Eco-friendly Living
4.	English	<ul style="list-style-type: none">• Reading Comprehension and Critical Analysis• Grammar (Parts of Speech, Tenses)• Comprehension of Longer Texts	<ul style="list-style-type: none">• Vocabulary Building and Synonyms/Antonyms• Creative Writing (essays, stories, poems)• Effective Communication Skills
5.	Hindi	<ul style="list-style-type: none">• संज्ञा• सर्वनाम• क्रिया	<ul style="list-style-type: none">• वचन• वृत्तांत लेखन• समानार्थक और विपरीत शब्द

CO-SCHOLASTIC SUBJECTS

6.	STEM	<ul style="list-style-type: none"> • Robotics and Programming Basics • Engineering Design Challenges • Scientific Inquiry and Experimental Design 	<ul style="list-style-type: none"> • Advanced Concepts of Simple and Compound Machines • Electricity and Circuits (building circuits) • Introduction to Environmental Engineering
7.	General Knowledge	<ul style="list-style-type: none"> • World Geography and Countries • Current Affairs for Children • Space Exploration and Celestial Bodies 	<ul style="list-style-type: none"> • Historical Events and Famous Personalities • Cultural Diversity and Traditions • General Knowledge Questions from Various Fields
8.	Computer	<ul style="list-style-type: none"> • Advanced Concepts of Computer Hardware and Software • Introduction to Algorithms and Flowcharts • Spreadsheets and Data Analysis 	<ul style="list-style-type: none"> • Programming Concepts (conditional statements, loops) • Internet Safety and Cybersecurity • Understanding Networks and Connectivity
9.	Aptitude & Reasoning	<ul style="list-style-type: none"> • Advanced Patterns, Series, and Sequences • Mathematical Reasoning (word problems) • Data Interpretation 	<ul style="list-style-type: none"> • Logical Reasoning (solving complex puzzles) • Analytical and Critical Thinking • Problem-solving Strategies

SYLLABUS FOR CLASS V

Sr. No.	Subjects	Contents	
SCHOLASTIC SUBJECTS			
1.	Mathematics	<ul style="list-style-type: none">• Numbers up to 100,000 and Number Patterns• Fractions, Decimals, and Percentages• Measurement (Area, Perimeter)	<ul style="list-style-type: none">• Operations (Addition, Subtraction, Multiplication, Division)• Geometry (Polygons, Circles, Volume)• Data Handling and Probability

2.	Science	<ul style="list-style-type: none"> Human Anatomy and Physiology Chemical Changes and Reactions Energy and Conservation 	<ul style="list-style-type: none"> Ecosystems and Interdependence Earth's Structure and Plate Tectonics Introduction to Genetics and Heredity
3.	SST	<ul style="list-style-type: none"> Biodiversity and Conservation Waste Management and Recycling Renewable Energy Sources 	<ul style="list-style-type: none"> Climate Change and Global Warming Natural Disasters and Disaster Management Environmental Impact Assessment and Sustainable Practices
4.	English	<ul style="list-style-type: none"> Reading Comprehension and Critical Analysis Grammar (Advanced Parts of Speech, Tenses) Comprehension of Longer Texts 	<ul style="list-style-type: none"> Vocabulary Building and Synonyms/Antonyms Creative Writing (essays, stories, poems) Public Speaking and Debate Skills
5.	Hindi	<ul style="list-style-type: none"> विभक्ति काव्यात्मक रचनाएँ संधि और समास 	<ul style="list-style-type: none"> पत्र लेखन रूपक और अलंकार कहानी लेखन
CO-SCHOLASTIC SUBJECTS			
6.	STEM	<ul style="list-style-type: none"> Robotics and Advanced Programming Concepts Advanced Concepts of Simple and Compound Machines Scientific Research and Inquiry Solutions 	<ul style="list-style-type: none"> Engineering Design and Prototyping Electricity and Circuits (building circuits) Environmental Engineering and Sustainable
7.	General Knowledge	<ul style="list-style-type: none"> World Geography and Countries Current Affairs for Children Space Exploration and Astronomy 	<ul style="list-style-type: none"> Historical Events and Famous Personalities Cultural Diversity and Traditions General Knowledge Questions from Various Fields
8.	Computer	<ul style="list-style-type: none"> Advanced Concepts of Computer Programming Introduction to Artificial Intelligence Database Management 	<ul style="list-style-type: none"> Algorithms and Flowcharts Cybersecurity and Ethical Hacking Internet of Things (IoT) Basics
9.	Aptitude & Reasoning	<ul style="list-style-type: none"> Advanced Patterns, Series, and Sequences Mathematical Reasoning (word problems) Data Interpretation and Analysis 	<ul style="list-style-type: none"> Logical Reasoning (solving complex puzzles) Analytical and Critical Thinking Problem-solving Strategies

SYLLABUS FOR CLASS VI

SR. No.	Subjects	Contents	
SCHOLASTIC SUBJECTS			
1.	Mathematics	<ul style="list-style-type: none">Numbers and Operations (integers, fractions, decimals)Geometry (Angles, Triangles, Quadrilaterals)Ratio and Proportion	<ul style="list-style-type: none">Algebraic Expressions and EquationsData Handling (Graphs, Charts)Basic Concepts of Probability
2.	Science	<ul style="list-style-type: none">Cell Structure and FunctionEarth's Atmosphere and Weather PatternsLight and Sound Waves	<ul style="list-style-type: none">Basics of Physics (Force, Motion, Energy)Chemical Reactions and EquationsClassification of Living Organisms
3.	SST	<ul style="list-style-type: none">Ecosystems and BiodiversityClimate Change and Global WarmingEnvironmental Impact Assessment	<ul style="list-style-type: none">Natural Resources and ConservationWaste Management and RecyclingSustainable Practices and Green Technologies
4.	English	<ul style="list-style-type: none">Reading Comprehension and Critical AnalysisGrammar (Parts of Speech, Tenses, Active/Passive Voice)Literature Appreciation	<ul style="list-style-type: none">Vocabulary Building and Synonyms/AntonymsCreative Writing (essays, stories, poems)Public Speaking and Debating Skills
5.	Hindi	<ul style="list-style-type: none">संज्ञा और उसके प्रकारविशेषणकाल	<ul style="list-style-type: none">उपसर्ग और प्रत्ययसंवाद लेखनकविता लेखन

CO-SCHOLASTIC SUBJECTS			
6.	STEM	<ul style="list-style-type: none"> Robotics and Advanced Programming Concepts Electricity and Circuits (advanced concepts) Innovations in Technology 	<ul style="list-style-type: none"> Engineering Design and Prototyping Scientific Research and Inquiry Environmental Engineering and Sustainable Solutions
7.	General Knowledge	<ul style="list-style-type: none"> World Geography and Countries Current Affairs for Children Space Exploration and Astronomy 	<ul style="list-style-type: none"> Historical Events and Famous Personalities Cultural Diversity and Traditions General Knowledge Questions from Various Fields
8.	Computer	<ul style="list-style-type: none"> Programming Concepts and Languages Advanced Internet Safety and Cybersecurity Introduction to Artificial Intelligence 	<ul style="list-style-type: none"> Algorithms, Flowcharts, and Pseudocode Web Development Basics (HTML, CSS) Database Management and SQL
9.	Aptitude & Reasoning	<ul style="list-style-type: none"> Patterns, Series, and Sequences Mathematical Reasoning (word problems, algebraic reasoning) Data Interpretation and Analysis 	<ul style="list-style-type: none"> Logical Reasoning (solving complex problems) Critical Thinking and Analytical Skills Problem-solving Strategies

SYLLABUS FOR CLASS VII

Sr. No.	Subjects	Contents	
SCHOLASTIC SUBJECTS			
1.	Mathematics	<ul style="list-style-type: none">• Number Systems (Rational Numbers, Irrational Numbers)• Geometry (Angles, Circles, Constructions)• Rational and Irrational Numbers	<ul style="list-style-type: none">• Algebraic Expressions and Equations• Data Handling (Statistics, Probability)• Exponents and Powers
2.	Science	<ul style="list-style-type: none">• Cell Biology and Microorganisms• Chemistry - Elements, Compounds, and Mixtures• Basics of Astronomy (Solar System, Stars)	<ul style="list-style-type: none">• Basics of Physics (Motion, Energy, Sound)• Earth Science - Geology and Earth's Processes• Genetics and Heredity
3.	SST	<ul style="list-style-type: none">• Ecosystems and Conservation• Environmental Pollution and Remediation• Renewable and Non-Renewable Energy Sources	<ul style="list-style-type: none">• Climate Change and Global Warming• Biodiversity and Endangered Species• Sustainable Development
4.	English	<ul style="list-style-type: none">• Reading Comprehension and Critical Analysis• Grammar (Advanced Parts of Speech, Tenses, Voice)• Literature Analysis and Appreciation	<ul style="list-style-type: none">• Vocabulary Building and Word Usage• Creative Writing (essays, stories, poems)• Effective Communication Skills
5.	Hindi	<ul style="list-style-type: none">• समीकरण• कृदंत और धातु• अलंकार	<ul style="list-style-type: none">• वर्णमाला और उनका सही उच्चारण• निबंध लेखन• कहानी का सार
CO-SCHOLASTIC SUBJECTS			
6.	STEM	<ul style="list-style-type: none">• Robotics and Advanced Programming Concepts• Electricity and Circuits (advanced concepts)• Innovations in Technology	<ul style="list-style-type: none">• Engineering Design and Prototyping• Scientific Research and Experimental Design• Environmental Engineering and Sustainable Solutions
7.	General Knowledge	<ul style="list-style-type: none">• World Geography, Countries, and Capitals• Current Affairs for Children• Space Exploration and Astronomy	<ul style="list-style-type: none">• Historical Events and Famous Personalities• Cultural Diversity and Traditions• General Knowledge Questions from Various Fields

8.	AI/Computer	<ul style="list-style-type: none">• Programming Concepts (Introduction to a programming language)• Cybersecurity and Ethical Hacking• Introduction to Artificial Intelligence and Machine Learning	<ul style="list-style-type: none">• Algorithms, Flowcharts, and Pseudocode• Web Development Basics (HTML, CSS, JavaScript)• Database Management and SQL
9.	Aptitude & Reasoning	<ul style="list-style-type: none">• Patterns, Series, and Sequences• Mathematical Reasoning (algebraic reasoning, word problems)• Data Interpretation and Analysis	<ul style="list-style-type: none">• Logical Reasoning (complex puzzles, deductive reasoning)• Critical Thinking and Analytical Skills• Problem-solving Strategies

SYLLABUS FOR CLASS VIII

SR. No.	Subjects	Contents	
SCHOLASTIC SUBJECTS			
1.	Mathematics	<ul style="list-style-type: none">• Number Systems (Rational, Irrational, Real Numbers)• Geometry (Triangles, Quadrilaterals, Circles)• Linear Equations and Inequalities	<ul style="list-style-type: none">• Algebraic Expressions and Equations• Data Handling (Statistics, Probability)• Quadratic Equations and Polynomials
2.	Science	<ul style="list-style-type: none">• Cell Biology and Genetics• Chemistry - Elements, Compounds, and Chemical Reactions• Astronomy - Solar System, Stars, and Galaxies	<ul style="list-style-type: none">• Physics - Motion, Forces, and Energy• Earth Science - Geology, Weathering, and Erosion• Environmental Science - Pollution, Conservation, and Sustainability
3.	SST	<ul style="list-style-type: none">• Ecosystems and Biodiversity Conservation• Environmental Pollution and Solutions• Waste Management and Recycling	<ul style="list-style-type: none">• Climate Change and Global Warming• Renewable Energy Sources• Sustainable Development Goals (SDGs)
4.	English	<ul style="list-style-type: none">• Reading Comprehension and Critical Analysis• Grammar (Advanced Parts of Speech, Tenses, Voice)• Literature Analysis and Appreciation	<ul style="list-style-type: none">• Vocabulary Building and Word Usage• Creative Writing (essays, stories, poems)• Effective Communication Skills and Public Speaking
5.	Hindi	<ul style="list-style-type: none">• वाक्य रचना• समानार्थक शब्द और विलोम शब्द• उपसर्ग और प्रत्यय	<ul style="list-style-type: none">• समीकरण और वाक्यांश• कविता और गद्य लेखन• वर्णनात्मक और व्यक्तित्व वर्णन
CO-SCHOLASTIC SUBJECTS			
6.	STEM	<ul style="list-style-type: none">• Robotics and Advanced Programming Concepts• Electricity and Circuits (advanced concepts)• Innovations in Technology	<ul style="list-style-type: none">• Engineering Design and Prototyping• Scientific Research and Experimental Design• Environmental Engineering and Sustainable Solutions
7.	General Knowledge	<ul style="list-style-type: none">• World Geography, Countries, and Capitals• Current Affairs for Children• Space Exploration and Astronomy	<ul style="list-style-type: none">• Historical Events and Famous Personalities• Cultural Diversity and Traditions• General Knowledge Questions from Various Fields
8.	Computer	<ul style="list-style-type: none">• Programming Concepts (Advanced programming language)• Cybersecurity and Encryption• Introduction to Machine Learning	<ul style="list-style-type: none">• Data Structures and Algorithms• Web Development (HTML, CSS, JavaScript, Backend Basics)• Database Management and SQL
9.	Aptitude & Reasoning	<ul style="list-style-type: none">• Patterns, Series, and Sequences• Mathematical Reasoning (algebraic reasoning, word problems)• Data Interpretation and Analysis	<ul style="list-style-type: none">• Logical Reasoning (complex puzzles, deductive reasoning)• Critical Thinking and Analytical Skills• Problem-solving Strategies

SYLLABUS FOR CLASS IX

Sr. No.	Subjects	Contents
SCHOLASTIC SUBJECTS		
1.	Mathematics	<ul style="list-style-type: none"> Number Systems (Real Numbers, Rational and Irrational Numbers) Geometry (Triangles, Circles, Constructions) Trigonometry Algebraic Expressions and Equations Quadratic Equations and Polynomials Statistics and Probability
2.	Science	<ul style="list-style-type: none"> Cell Biology and Genetics Chemistry - Chemical Reactions, Periodic Table Astronomy - Solar System, Stars, and Cosmology Physics - Motion, Forces, and Energy Earth Science - Geology, Climate, Natural Disasters Environmental Science - Pollution, Conservation, and Sustainability
3.	Social Science	<ul style="list-style-type: none"> Ecosystems and Biodiversity Conservation Environmental Pollution and Solutions Waste Management and Recycling Climate Change and Global Warming Renewable Energy Sources Sustainable Development Goals (SDGs)
4.	English	<ul style="list-style-type: none"> Reading Comprehension and Critical Analysis Grammar (Advanced Parts of Speech, Tenses, Voice) Literature Analysis and Appreciation Vocabulary Building and Word Usage Creative Writing (essays, stories, poems) Effective Communication Skills and Public Speaking
5.	Hindi	<ul style="list-style-type: none"> संज्ञा और सर्वनाम विविध अलंकार समास रचनात्मक लेखन काव्यशास्त्र निबंध लेखन और विचार
CO-SCHOLASTIC SUBJECTS		
5.	STEM	<ul style="list-style-type: none"> Robotics and Advanced Programming Concepts Advanced Physics Concepts (Electricity, Magnetism) Innovations in Technology Engineering Design and Prototyping Scientific Research and Experimental Design Environmental Engineering and Sustainable Solutions
6.	General Knowledge	<ul style="list-style-type: none"> World Geography, Countries, and Capitals Current Affairs for Students Space Exploration and Astronomy Historical Events and Famous Personalities Cultural Diversity and Traditions General Knowledge Questions from Various Fields
7.	Artificial Intelligence	<ul style="list-style-type: none"> Programming Concepts (Advanced programming language) Cybersecurity and Encryption Machine Learning and Artificial Intelligence Data Structures and Algorithms Web Development (HTML, CSS, JavaScript, Backend Basics) Database Management and SQL
8.	Aptitude & Reasoning	<ul style="list-style-type: none"> Patterns, Series, and Sequences Mathematical Reasoning (algebraic reasoning, word problems) Data Interpretation and Analysis Logical Reasoning (complex puzzles, deductive reasoning) Critical Thinking and Analytical Skills Problem-solving Strategies

SYLLABUS FOR CLASS X

Sr. No.	Subjects	Contents
SCHOLASTIC SUBJECTS		
1.	Mathematics	<ul style="list-style-type: none"> Real Numbers and Polynomials Coordinate Geometry and Trigonometry Circles and Constructions Quadratic Equations and Arithmetic Progressions Statistics and Probability Quadrilaterals and Areas of Plane Figures

2.	Science	<ul style="list-style-type: none"> Biology - Genetics, Evolution, Human Health and Diseases Chemistry - Chemical Kinetics, Organic Chemistry, Environmental Chemistry Astronomy - Celestial Mechanics, Cosmology 	<ul style="list-style-type: none"> Physics - Optics, Electromagnetism, Modern Physics Earth Science - Natural Resources and Conservation Environmental Science - Biodiversity Conservation, Climate Change
3.	Social Science	<ul style="list-style-type: none"> Ecosystems and Conservation Environmental Pollution and Solutions Waste Management and Recycling 	<ul style="list-style-type: none"> Climate Change and Global Warming Renewable Energy Sources Sustainable Development Goals (SDGs)
4.	English	<ul style="list-style-type: none"> Reading Comprehension and Critical Analysis Grammar (Advanced Parts of Speech, Tenses, Voice) Literature Analysis and Appreciation 	<ul style="list-style-type: none"> Vocabulary Building and Word Usage Creative Writing (essays, stories, poems) Effective Communication Skills and Public Speaking
5.	Hindi	<ul style="list-style-type: none"> रचनात्मक लेखन काव्य रचनाएँ समीक्षा लेखन 	<ul style="list-style-type: none"> संवाद लेखन समास और उसका उपयोग वर्णनात्मक लेखन

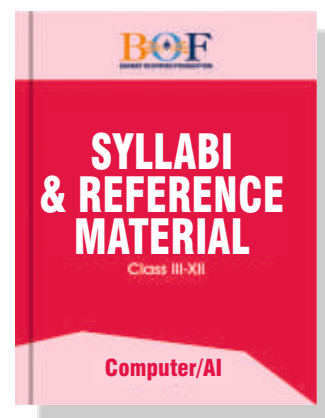
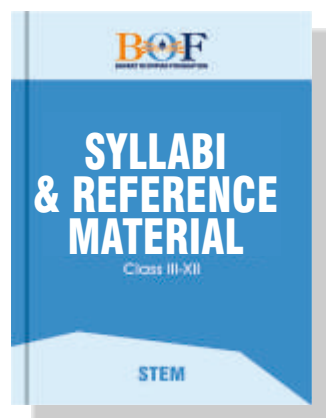
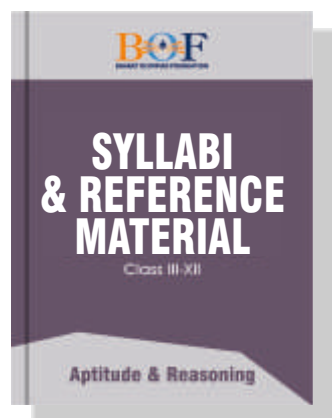
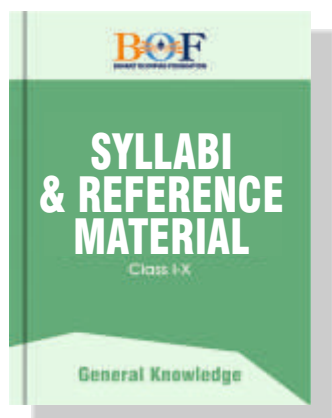
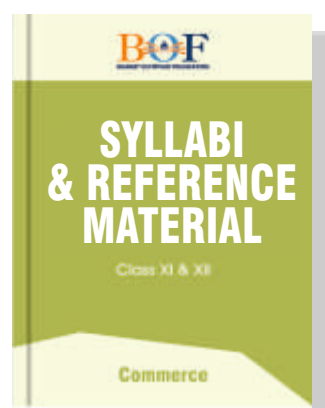
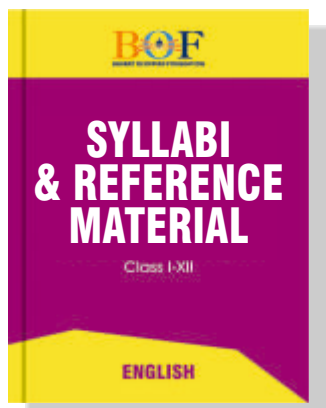
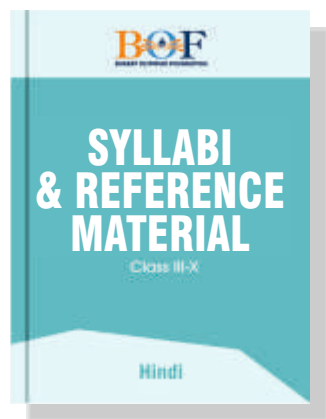
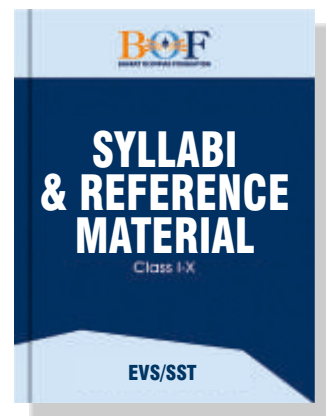
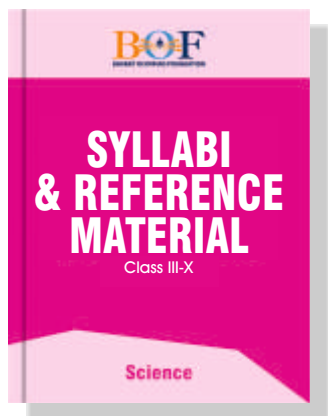
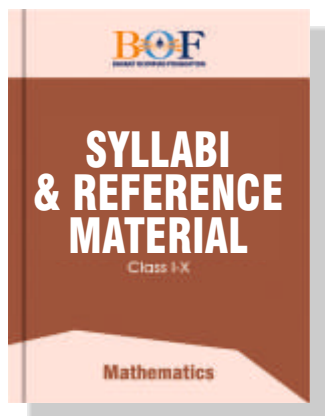
CO-SCHOLASTIC SUBJECTS

6.	STEM	<ul style="list-style-type: none"> Robotics and Advanced Programming Concepts Advanced Physics Concepts (Electricity, Magnetism) Innovations in Technology 	<ul style="list-style-type: none"> Engineering Design and Prototyping Scientific Research and Experimental Design Environmental Engineering and Sustainable Solutions
7.	General Knowledge	<ul style="list-style-type: none"> World Geography, Countries, and Capitals Current Affairs for Students Space Exploration and Astronomy 	<ul style="list-style-type: none"> Historical Events and Famous Personalities Cultural Diversity and Traditions General Knowledge Questions from Various Fields
8.	Artificial Intelligence	<ul style="list-style-type: none"> Programming in a High-Level Language (e.g., Python, Java) Cybersecurity and Ethical Hacking Database Management and SQL 	<ul style="list-style-type: none"> Data Structures and Algorithms Web Development (HTML, CSS, JavaScript, Backend Basics) Artificial Intelligence and Machine Learning Basics
9.	Aptitude & Reasoning	<ul style="list-style-type: none"> Number Systems and Algebraic Expressions Mathematical Reasoning (algebraic reasoning, word problems) Data Interpretation and Analysis 	<ul style="list-style-type: none"> Logical Reasoning (complex puzzles, deductive reasoning) Critical Thinking and Analytical Skills Problem-solving Strategies

SYLLABUS FOR CLASS XI & XII

Sr. No.	Subjects	Contents	
CO-SCHOLASTIC SUBJECTS			
1.	Artificial Intelligence	<ul style="list-style-type: none">• Programming in a High-Level Language (e.g., Python, Java)• Artificial Intelligence Fundamentals• Cybersecurity and Ethical Hacking	<ul style="list-style-type: none">• Data Structures and Algorithms• Machine Learning Concepts• Web Development (Advanced Concepts)
2.	STEM	<ul style="list-style-type: none">• Advanced Physics Concepts (Quantum Mechanics, Relativity)• Advanced Mathematics Concepts (Calculus, Differential Equations)• Scientific Research and Experimental Design	<ul style="list-style-type: none">• Advanced Chemistry Concepts (Organic Synthesis, Thermodynamics)• Engineering Design and Innovation• Environmental Engineering and Sustainability
3.	Aptitude & Reasoning	<ul style="list-style-type: none">• Advanced Number Systems and Algebraic Expressions• Mathematical Reasoning (algebraic reasoning, word problems)• Data Interpretation and Analysis	<ul style="list-style-type: none">• Logical Reasoning (complex puzzles, deductive reasoning)• Critical Thinking and Analytical Skills• Problem-solving Strategies in Advanced Mathematics

4.	English	<ul style="list-style-type: none"> • Reading Comprehension and Critical Analysis • Advanced Grammar (Syntax, Semantics) • Literature Analysis and Appreciation • Vocabulary Building and Word Usage • Creative Writing (essays, research papers) • Effective Communication Skills and Public Speaking
5.	Commerce Class XI (Accountancy, Business Studies & Economics)	<p>Introduction to Accounting</p> <ul style="list-style-type: none"> • Meaning, objectives, and importance of accounting. • Basic terms: Assets, liabilities, capital, revenue, expenses, profit, and loss. • Users of accounting information and their needs. • Limitations of accounting. <p>Theory Base of Accounting</p> <ul style="list-style-type: none"> • Accounting principles: Concepts and conventions (e.g., Going Concern, Accrual, Consistency). • Meaning and need for the system of accounting standards. • International Financial Reporting Standards (IFRS) overview. • Goods and Services Tax (GST) and its implications. <p>Nature and Purpose of Business</p> <ul style="list-style-type: none"> • Concept of business, objectives, and role in the economy. • Types of business activities: Industry and commerce. • Characteristics and importance of business risks. <p>Forms of Business Organizations</p> <ul style="list-style-type: none"> • Sole proprietorship, partnership, joint-stock company, and cooperative societies. • Features, merits, and demerits of each form of organization. • Comparison of different forms of organizations. <p>Introduction to Microeconomics</p> <ul style="list-style-type: none"> • Meaning, scope, and importance of microeconomics. • Central problems of an economy: What to produce, how to produce, and for whom to produce. • Concept of opportunity cost and production possibility frontier (PPF). <p>Statistics</p> <ul style="list-style-type: none"> • Collection and Organization of Data • Classification and Tabulation of Data • Measures of Central Tendency (Mean, Median, Mode) • Measures of Dispersion (Range, Variance & Standard Deviation)
6.	Commerce Class XII (Accountancy, Business Studies & Economics)	<p>Accounting for Partnership Firms</p> <ul style="list-style-type: none"> • Fundamentals of partnership: Features, partnership deed, and adjustments in the absence of a deed. • Methods of distributing profit: Fixed and fluctuating capital accounts. • Treatment of goodwill and changes in profit-sharing ratio. • Admission, retirement, and death of a partner. <p>Accounting for Companies</p> <ul style="list-style-type: none"> • Issue of shares: Types, accounting treatment, and journal entries. • Forfeiture and reissue of shares. • Issue and redemption of debentures. • Financial statements of a company: Balance sheet and statement of profit and loss. <p>Principles of Management</p> <ul style="list-style-type: none"> • Nature and Significance of Management • Functions of Management • Principles of Management • Management and its Environment <p>Entrepreneurship Development</p> <ul style="list-style-type: none"> • Meaning, characteristics, and importance of entrepreneurship. • Functions and roles of an entrepreneur in economic development. • Business planning and start-up process. <p>Indian Economic Development</p> <ul style="list-style-type: none"> • Overview of the Indian economy at the time of independence. • Economic planning in India: Objectives, achievements, and failures. • Structural changes in the Indian economy: Agriculture, industry, and services. • Current challenges: Poverty, unemployment, and infrastructure. <p>Government Budget and the Economy</p> <ul style="list-style-type: none"> • Objectives and components of the government budget: Revenue and capital budget. • Types of deficits: Fiscal deficit, Revenue deficit, and Primary deficit. • Role of government budget in economic stability and development.



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