

CATSE -2024

CAREER ACADEMY TALENT SEARCH EXAM

SYLLABUS

Syllabus consists of topics from Current Class. Students are advised to find these topics from their school text books of present and previous classes and prepare thoroughly for MCQs.

CLASS - VIII			
SCIENCE	SOCIAL SCIENCE	MATHEMATICS	MENTAL ABILITY
Crop Production & Management, The Microbial World, Synthetic Fibers & Plastics, Metals & Non-Metals, Coal & Petroleum, Combustion, Flame & Fuels, Conservation of Animals and Plants, Cell Structure & Function, Force & Pressure, Friction	How, When & Where?, From trade to Territory, Ruling the Countryside, Resources, Land, Soil, water Natural Vegetation and wildlife resources, Mineral and power Resource, The Indian Constitution, Understanding Secularism, Why do we need a Parliament?	Rational Numbers, Linear Equation in one Variable, Understanding Quadrilaterals , Data Handling, Square & Square Roots, Cubes & Cube Roots, Comparing Quantities, Algebraic Expression & Identities	Blood Relation. Coding-decoding, Counting of Figure, Cubes and Dice, Direction Sense, Embedded Figure, Insert the Missing Character Series, Mathematical Operation, Mirror Image, Venn-Diagram, Water Image, Series, Ranking Test Questions

CLASS - IX			
SCIENCE	SOCIAL SCIENCE	MATHEMATICS	MENTAL ABILITY
Atoms & Molecules, Matter in our surroundings, Is matter around us Pure?, Motion & Laws of motion, Force & Laws of motion, Gravitation, The fundamental unit of cell, Tissue, Why do fall ill?	French Revolution, The Russian Revolution, What is Democracy? Why Democracy?, Constitutional design, Electoral politics, India-size and location, Physical features of India, Drainage, The story and village Palampur, People as resource, Poverty as a challenge	Number System, Polynomials, Coordinate Geometry, Linear Equation in two Variables, Lines & Angles, Triangles	Blood Relation. Coding-decoding, Counting of Figure, Cubes and Dice, Direction Sense, Embedded Figure, Insert the Missing Character Series, Mathematical Operation, Mirror Image, Venn-Diagram, Water Image, Series, Ranking Test Questions

CLASS - X

SCIENCE	SOCIAL SCIENCE	MATHEMATICS	MENTAL ABILITY
Chemical reaction & equations, Acids, bases & Salts, Metals & Non-metals, Current electricity, Magnetic Effect of current, Source of energy, Life Processes, Genetics & Evolution	The rise of Nationalism in Europe, The Nationalism in India, Power sharing, Federalism, Democracy and Diversity, Resources & Development, Forests and Wildlife Resources, Agriculture Development, The sectors of Indian Economy, Money and credit	Real Numbers, Polynomials, The pair of Linear Equations in two variables, Quadratic Equations, Arithmetic Progressions, Triangles, Trigonometry	Blood Relation. Coding-decoding, Counting of Figure, Cubes and Dice, Direction Sense, Embedded Figure, Insert the Missing Character Series, Mathematical Operation, Mirror Image, Venn-Diagram, Water Image, Series, Ranking Test Questions

CLASS – XI (SCIENCE)

PHYSICS	CHEMISTRY	BIOLOGY	MATHEMATICS	MENTAL ABILITY
Physical World, Unit Dimensions & Error, Motion in Straight line, Motion in Plane, Laws of motion, Friction	Some basic concepts of chemistry, Structure of atom, Periodic table and its properties, Chemical Bonding, Redox reaction, States of matter, Thermodynamic, Equilibrium	The Living World, Biological Classification, Plant Kingdom, Animal Kingdom, Morphology of Flowering Plants, Anatomy of flowering Plants, Structural organisation in animals, Cell Cycle & Cell Division	Sets, Relations & functions, Trigonometric Functions, Complex number, Permutations & Combinations, Binomial Theorem, Sequences and Series	Blood Relation. Calendar, Clock, Coding-decoding, Counting of Figure, Cubes and Dice, Direction Sense, Embedded Figure, Mathematical Operation, Verbal & Non-verbal Series, Verbal & Non- verbal Analogy, Ranking Test, Counting of figures, Matrix, Series,

CLASS – XII (SCIENCE)

PHYSICS	CHEMISTRY	BIOLOGY	MATHEMATICS	MENTAL ABILITY
Electric charges and fields, Electrostatic potential and capacitance, Current Electricity, Moving charges and magnetism, Magnetism and matter, Electromagnetic Induction, Alternating Currents	Solid State, Solutions, Electrochemistry, Chemical kinetics, Coordination Compound, Halo Alkanes & Haloarenes, Alcohols, Phenols & Ethers,	Reproduction in Organisms, Sexual Reproduction in Flowering Plants, Human Reproduction, Reproductive Health, Principles of inheritance and Variation, Molecular Basis of inheritance, Evolution, Strategies in Enhancement in Food Production	Relations & Functions, Inverse Trigonometric functions, Matrices, Determinants, Continuity & Differentiability, Applications of Derivatives, Integration	Blood Relation. Calendar, Clock, Coding-decoding, Counting of Figure, Cubes and Dice, Direction Sense, Embedded Figure, Mathematical Operation, Verbal & Non-verbal Series, Verbal & Non- verbal Analogy, Ranking Test, Counting of figures, Matrix,