

SYLLABUS FOR GENIUS-20 EXAMINATION‘ 2024-25

For Class-8th moving to Class-9th :

Physics		Chemistry		Biology		Mathematics	
<ul style="list-style-type: none"> • Force & Pressure • Friction • Chemical effect of Electric Current • Sound • Light 	From Class-8	<ul style="list-style-type: none"> • Synthetic Fibres and Plastics • Materials: Metals and Non-metals • Coal and Petroleum • Combustion and Flame • Pollution of Air and Water 	From Class-8	<ul style="list-style-type: none"> • Cell • Microorganisms : Friend and Foe • Reaching the Age of Adolescence • Reproduction in Animals 	From Class-8	<ul style="list-style-type: none"> • Rational Numbers • Linear Equations in One Variable • Understanding Quadrilaterals • Data Handling • Squares and Square Roots 	From Class-8
		<ul style="list-style-type: none"> • Fibre to Fabric • Heat • Acids, Bases and Salts • Physical and Chemical Changes • Water:A Precious Resource 	From Class-7	<ul style="list-style-type: none"> • Nutrition in plants • Nutrition in animals • Respiration in organisms • Transportation in animals and plants • Reproduction in plants 	From Class-7		

For Class-9th moving to Class-10th :

Physics		Chemistry		Biology		Mathematics	
<ul style="list-style-type: none"> • Motion • Force & Laws of motion • Gravitation • Work & Energy 	From Class-9	<ul style="list-style-type: none"> • Matter in Our Surroundings • Is Matter around us Pure • Atoms and Molecules (Including mole concept) • Structure of the Atom 	From Class-9	<ul style="list-style-type: none"> • Cell • Tissue • Why do we fall ill? 	From Class-9	<ul style="list-style-type: none"> • Number System • Polynomials • Co-ordinate Geometry • Linear Equations in Two Variables • Lines and Angles • Triangles • Quadrilaterals • Circles • Heron's formula • Surface Areas and Volumes • Probability 	From Class-9
<ul style="list-style-type: none"> • Light 	From Class-8	<ul style="list-style-type: none"> • Synthetic Fibres and Plastics • Materials: Metals and Non-metals • Coal and Petroleum • Combustion and Flame • Pollution of Air and Water 	From Class-8	<ul style="list-style-type: none"> • Microorganisms : Friend and Foe • Adolescence • Reproduction in animals 	From Class-8		

For Class-10th moving to Class-11th :

Physics		Chemistry		Biology		Mathematics	
<ul style="list-style-type: none"> • Light • Human Eye & Colourful World • Electricity • Magnetic Effect of Current 	From Class-10	<ul style="list-style-type: none"> • Chemical Reactions and Equations • Acids, Bases and Salts • Metals and Non-Metals • Carbon and Its Compounds • Periodic Classification of Elements 	From Class-10	<ul style="list-style-type: none"> • Life processes • Control and Co-ordination • Reproduction • Heredity • Our Environment 	From Class-10	<ul style="list-style-type: none"> • Real Numbers • Polynomials • Pair of Linear Equations in Two Variables • Quadratic Equations • Arithmetic Progressions • Triangles • Co-ordinate Geometry • Introduction to Trigonometry • Some Application of Trigonometry • Circles • Area Related to Circles • Surface Areas and Volumes • Probability 	From Class-10
<ul style="list-style-type: none"> • Motion • Gravitation 	From Class-9	<ul style="list-style-type: none"> • Matter in Our Surroundings • Is Matter around us Pure • Atoms and Molecules (Including Mole Concept) • Structure of the Atom 	From Class-9	<ul style="list-style-type: none"> • Cell • Tissue • Why do we fall ill? 	From Class-9		

For Class-11th moving to Class-12th :

Physics		Chemistry		Biology		Mathematics	
<ul style="list-style-type: none"> • Physical world • Unit and measurements • Motion in straight line • Motion in a plane • Laws of motion • Work, Energy and Power • System of Particles and Rotational Motion • Mechanical Properties of Solids • Mechanical Properties of Fluids 	From Class-11	<ul style="list-style-type: none"> • Some Basic Concepts of chemistry • Structure of atom • Classification of elements and periodicity in properties • Chemical Bonding and Molecular structure • Redox Reaction • Thermodynamics • Organic Chemistry- Some Basic Principles and Techniques (IUPAC Nomenclature, Structural Isomers, Electronic Effect, Aromaticity, Acidic and Basic Strength, Stability of Carbonation, Carbanion and Carbon Free Radical, Detection and Estimation of elements in organic compounds, Purification of organic compounds and separation techniques) 	From Class-11	<ul style="list-style-type: none"> • The Living world • Biological classification • Plant kingdom • Animal kingdom • Morphology of Flowering plants • Cell: The unit of life • Cell cycle and cell division • Photosynthesis in higher plants • Breathing and Exchange of Gases • Body Fluids and Circulation 	From Class-11	<ul style="list-style-type: none"> • Sets • Complex Number • Trigonometric Functions • Quadratic Equations • Sequence & Series • Linear Inequalities • Straight Lines • Circle • Conic Section (Parabola, Ellipse, Hyperbola) 	From Class-11