

Syllabus: X Physics

Units	S.No	CONTENTS Class X Physics	T	L	Tests
UNIT I: Basic Physics I.(1-3)					
UNIT I	1	Units and Measurements			
	2	Error Methods			
	3	Vernier Caliper and Screw gauge			
UNIT II: Motion II.(4-5)					
UNIT II	4	Equations of motion and Problems			
	5	Graphical representations and Problems			
UNIT III: Force and Laws of motion III.(6-8)					
UNIT III	6	Force			
	7	Newton's laws of motion			
	8	Conservation of momentum			
UNIT IV: Gravitation IV.(9-11)					
UNIT IV	9	Newton's law of gravitation			
	10	Variation of gravity with height			
	11	Kepler's laws			
UNIT V: Electricity V.(12-15)					
UNIT V	12	Current and Voltage			
	13	Ohm's law			
	14	Resistors in Series and Parallel			
	15	Heating Effect of Electric current			
UNIT VI: Magnetic Effects of Electric Current IV.(16-18)					
UNIT VI	16	Magnetic Field			
	17	Magnetic Force			
	18	Electromagnetic Induction			
UNIT VII: Sources of Energy V.(19-20)					
UNIT VII	19	Conventional Sources of Energy			
	20	Non-Conventional Sources of Energy			

Syllabus: X Chemistry

Units	S.No	CONTENTS Class X Chemistry	T	L	Tests
		UNIT I: Acids, Bases and Salts	I.(1-3)		
UNIT I	1	Properties of Acids and Bases			
	2	pH Scale and its Importance			
	3	Important Chemical Compounds			
		UNIT II: Periodic Classification of Elements	II.(4-5)		
UNIT II	4	Classification - Early Attempts			
	5	Modern Periodic Table of Elements			
		UNIT III: Chemical Reactions and Equations	III.(6-10)		
UNIT III	6	Chemical Reactions			
	7	Chemical Equations			
	8	Combination and Decomposition Reaction			
	9	Types of Displacement Reactions			
	10	Redox Reactions			
		UNIT IV: Metals and Non-Metals	IV.(11-15)		
UNIT IV	11	Physical Properties of Metals and Non-Metals			
	12	Chemical Properties of Metals			
	13	Metals in Nature			
	14	Metallurgy			
	15	Electrovalent Bonding of Metals			
		UNIT V: Carbon and Its Compounds	V.(16-20)		
UNIT V	16	Covalent Bonding of Non-Metals			
	17	Introduction to Hydrocarbons			
	18	Nomenclature of Organic Compounds			
	19	Properties of Hydrocarbons			
	20	Alcohols and Carboxylic Acids			

Syllabus: X Biology

Units	S.No	CONTENTS Class X Biology	T	L	Tests
UNIT I: Life Process I - Plant Physiology (1-4)					
UNIT I	1	Nutrition in Plants			
	2	Transport in Plants			
	3	Respiration in Plants			
	4	Photosynthesis			
UNIT II: Life Process II - Animal Physiology(Man) II.(5-12)					
UNIT II	5	Digestive System			
	6	Circulatory System			
	7	Respiration System			
	8	Excretory System			
	9	Muscular and Skeletal System			
	10	Nervous System			
	11	Endocrine System			
	12	Reproductive System			
UNIT III: Genetics III.(13-14)					
UNIT III	13	Basic principles			
	14	Mendelian laws (a) Law of dominance and recessiveness (b) Monohybrid cross (c) Dihybrid cross			
UNIT IV: Evolution IV.(15-18)					
UNIT IV	15	Theories and Principles			
	16	Geological Time Scale			
	17	Mechanism of Evolution			
	18	Classification of Evolution			
UNIT V: Environment V.(19-20)					
UNIT V	19	Environment Problems			
	20	Ecosystem - Nutrients and Energy Flow			
UNIT VI: Management of Natural Resources VI.(21-23)					
UNIT VI	21	Importance of Natural Resources			
	22	Water - Importance and Conservation			
	23	Conservation of Natural Resources			
UNIT VII: Cell Biology VII.(24-25)					
UNIT VII	24	Structure & Functions of: Cell and its Organells			
	25	Cell Division: Mitosis & Meiosis			
UNIT VIII: Human Diseases VIII.(26)					
VIII	26	Human Diseases: Viral, Bacterial, Fungal, etc.			

Syllabus: X Mathematics

Units	S.No	CONTENTS Class X Mathematics	T	L	Tests
		UNIT I: Set and Relation	I.(1-5)		
UNIT I	1	Set Operations			
	2	Cartesian Product			
	3	Relations			
	4	some Types of Relations			
	5	Domain and Range			
		UNIT II: Pair of Linear Equations in Two Variables	II.(6-8)		
UNIT II	6	Algebraic, Graphical, Cross Multiplication Methods			
	7	Consistent Equations			
	8	In consistent Equations			
		UNIT III: Sequences and Series	III.(9-12)		
UNIT III	9	Sequence			
	10	Arithmetic Progression			
	11	Sum of n Terms of an AP			
	12	Insertion of Arithmetic Means			
		UNIT IV: Quadratic Equations	IV.(13-16)		
UNIT IV	13	Solving Quadratic Equation			
	14	Relation between Roots and Coefficients			
	15	Nature of Roots			
	16	Common Roots			
		UNIT V: Coordinate Geometry	V.(17-20)		
UNIT V	17	Distance Formula			
	18	Section Formula			
	19	Area of Triangles and Quadrilaterals			
	20	Colinearity			
		UNIT VI: Trigonometry	VI.(21-22)		
VI	21	Trigonometric Ratios			
	22	Trogonometrical Identities			
		UNIT VII: Matrices	VII.(23-29)		
UNIT VII	23	Matrix			
	24	Order of a Matrix			
	25	Types of Matrix			
	26	Addition, Subtraction of Matrices			
	27	Multiplication of Matrices			
	28	Transpose of a Matrix			
	29	Symmetric and Skew Symmetric Matrix			

		UNIT VIII: Probability	VIII.(30-32)			
UNIT VIII	30	Some Definations				
	31	Probability				
	32	Addioton Theorems on Probability				
		UNIT IX: Complex Numbers	IX.(33-36)			
UNIT IX	33	Imaginary Number				
	34	complex Number				
	35	Conjugate of Complex number				
	36	Modulus of Comlex number				

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