

LITTLE HEARTS INTERNATIONAL SCHOOL, BHIWANI TALENT SEARCH EXAM

Exam Pattern and Syllabus 2024-25

Subject	Class 8 th	Class 9 th	Class 10 th
Physics	<ul style="list-style-type: none"> ● Force & Pressure ● Friction ● Sound ● Chemical Effects of Electric Current 	<ul style="list-style-type: none"> ● Motion ● Force & Laws of motion ● Gravitation 	<ul style="list-style-type: none"> ● Light-Reflection & Refraction ● Human Eye and colourful world
Chemistry	<ul style="list-style-type: none"> ● Coal and Petroleum ● Combustion & Flame (Combustion types of combustion, Fire) 	<ul style="list-style-type: none"> ● Matter in our Surroundings ● Is Matter Around Us Pure? ● Atoms and Molecules 	<ul style="list-style-type: none"> ● Chemical Reactions and Equations ● Acids, Bases and salts ● Metals and Non-metals
Biology	<ul style="list-style-type: none"> ● Crop Production and Management ● Microorganisms Friend and Foe ● Conservation of Plants and Animals ● Reproduction in Animals 	<ul style="list-style-type: none"> ● The Fundamental Unit of Life ● Tissues 	<ul style="list-style-type: none"> ● Life Processes ● Control and Coordination
Mathematics	<ul style="list-style-type: none"> ● Rational Numbers ● Linear Equations in one Variable ● Understanding Quadrilateral ● Data Handling ● Squares and Square Roots- Cubes and Cube Roots 	<ul style="list-style-type: none"> ● Numbers Systems ● Polynomials ● Coordinate Geometry ● Lines and Angles ● Triangles ● Linear Equations In Two Variables 	<ul style="list-style-type: none"> ● Real Numbers ● Polynomials ● Pair of Linear Equations in Two Variables ● Quadratic Equations ● Arithmetic Progressions ● Coordinate Geometry
Mental Ability	<ul style="list-style-type: none"> ● Verbal & Non-Verbal Reasoning: Series Analogy ● Number and Alphabet Test ● Direction Test ● Coding and Decoding ● Problems Based on Figures 	<ul style="list-style-type: none"> ● Verbal Non-Verbal Reasoning: Series, Analogy Classification ● Coding and Decoding ● General Logical Reasoning & Analytical Reasoning ● Figure Matrix ● Problems Based on Figures 	<ul style="list-style-type: none"> ● Verbal Non-Verbal Reasoning: Series, Analogy Classification ● Coding and Decoding ● General Logical Reasoning & Analytical Reasoning ● Figure Matrix

“ All the Best for the Exam”

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Exam Pattern and Syllabus 2024-25

Medical Aspirants			Engineering Aspirants		
Subject	Class 11 th	Class 12 th	Subject	Class 11 th	Class 12 th
Physics	<ul style="list-style-type: none"> Units and Measurements Motion in a straight Line Motion in a Plane Laws of Motion Work, Energy and Power 	<ul style="list-style-type: none"> Electric Charges and Fields Electrostatic Potential and Capacitance Current Electricity Moving Charges and Magnetism Electromagnetic Induction 	Physics	<ul style="list-style-type: none"> Physical World Units and Measurements Motion in a Plane Laws of Motion Work, Energy and Power 	<ul style="list-style-type: none"> Electric Charges and Fields Electrostatic Potential and Capacitance Current Electricity
Chemistry	<ul style="list-style-type: none"> Some Basic Concepts of Chemistry Structure of an Atom Classification of Elements & Periodicity in Properties Chemical Bonding and Molecular Structure 	<ul style="list-style-type: none"> Solutions Electro-chemistry Chemical Kinetics Haloalkanes and Haloarenes 	Chemistry	<ul style="list-style-type: none"> Some Basic Concepts of Chemistry Structure of an Atom Classification of Elements & Periodicity in Properties Chemical Bonding and Molecular Structure 	<ul style="list-style-type: none"> Solutions Electro-chemistry Chemical Kinetics The d and f-Block Elements
Botany	<ul style="list-style-type: none"> Cell; The unit of life Cell Cycle and Cell Division The Living World Biological Classification 	<ul style="list-style-type: none"> Sexual Reproduction in Flowering Plants Principles of Inheritance and Variation Molecular Basis of Inheritance 	Mathematics	<ul style="list-style-type: none"> Sets Trigonometric Functions Complex Numbers and Quadratic Equations Linear Inequalities Permutations and Combinations 	<ul style="list-style-type: none"> Inverse Trigonometric Functions Matrices Determinants Continuity and Differentiability Application of Derivatives
Zoology	<ul style="list-style-type: none"> Biomolecules Breathing and Exchange of Gases Body Fluids and Circulation Excretory Products Elimination 	<ul style="list-style-type: none"> Human Reproduction Reproductive Health Evolution Human Health and Diseases 			

Question Pattern

Classes	Physics	Chemistry	Biology	Maths	Mental Ability	Total Questions
Class 8 th to 10 th	8	7	7	10	8	40
Class 11 th & 12 th JEE	10	10	--	10	--	30
Class 11 th & 12 th NEET	15	15	30	--	--	60

Exam Pattern and Syllabus 2024-25

Humanities / Arts Aspirants		
Subject	Class 11th	Class 12th
English Language	<ul style="list-style-type: none"> ● Reading Comprehension ● Active & Passive Voice ● Modals ● Prepositions ● Articles ● Tenses ● Spotting Errors 	<ul style="list-style-type: none"> ● Reading Comprehension ● Active & Passive Voice ● Modals ● Prepositions ● Articles ● Tenses ● Spotting Errors
Logical Reasoning	<ul style="list-style-type: none"> ● Verbal Non-Verbal Reasoning: Series, Analogy Classification ● Coding and Decoding ● General Logical Reasoning & Analytical Reasoning ● Figure Matrix 	<ul style="list-style-type: none"> ● Verbal Non-Verbal Reasoning: Series, Analogy Classification ● Coding and Decoding ● General Logical Reasoning & Analytical Reasoning ● Figure Matrix
General Knowledge	<ul style="list-style-type: none"> ● Politics ● History ● Geography ● Static GK ● Economics ● Arts and Culture ● Environment and Ecology 	<ul style="list-style-type: none"> ● Politics ● History ● Geography ● Static GK ● Economics ● Arts and Culture ● Environment and Ecology
Quantitative Techniques	<ul style="list-style-type: none"> ● Number System ● HCF, LCM ● Ratio & Proportion ● Simplification ● Percentage ● Average ● Age Calculation ● Time & Work ● Distances ● Trigonometric Ratios 	<ul style="list-style-type: none"> ● Number System ● HCF, LCM ● Ratio & Proportion ● Simplification ● Percentage ● Average ● Age Calculation ● Time & Work ● Distances ● Trigonometric Ratios

NCERT Based Syllabus / There is no negative marking

Question Pattern					
Classes	English Language	Logical Reasoning	General Knowledge	Quantitative Techniques	Total Questions
Class 11 th & 12 th	15	15	15	15	60
Humanities / Arts					