



NARAYANA

IIT-JEE / NEET / FOUNDATION

(A Unit of NSPIRA Management Services Pvt. Ltd.)



SYLLABUS FOR NSAT-2022

FOR CLASS VII, VIII & IX
(Studying students)

Syllabus consists of topics from Current Class. Students are advised to find these topics from their school text books of current year and prepare thoroughly, for MCQs.

Total No. of Questions: **35**

Total Marks: **140**

Duration: **1**

No Negative Marking:

35 MCQs : Physics (7) | Chemistry (7) | Biology (7) | Mathematics (7) | Mental Ability (7)

CLASS : VII MOVING TO VIII

| Physics | Chemistry | Biology | Maths | Mental Ability |
|---|--|--|---|---|
| <ul style="list-style-type: none"> Heat Winds Storms and Cyclones Motion and Time | <ul style="list-style-type: none"> Fibre to Fabric Acids Bases and Salts Physical and Chemical changes | <ul style="list-style-type: none"> Nutrition in Plants Nutrition in Animals Weather Climate and Adaptation of Animals to Climate Respiration in Organisms | <ul style="list-style-type: none"> Integers Fractions & Decimals Data Handling Simple Equations Lines and Angles Triangle and its Properties Congruence of Triangles Comparing Quantities | <ul style="list-style-type: none"> Series Direction Test Mathematical Operations Missing Character Puzzles Mirror & Water Image |

CLASS : VIII MOVING TO IX

| Physics | Chemistry | Biology | Maths | Mental Ability |
|---|---|---|---|--|
| <ul style="list-style-type: none"> Force and Pressure Friction Sound Chemical Effects of Electric Current | <ul style="list-style-type: none"> Materials: Metals and Non-metals Synthetic Fibres and plastics | <ul style="list-style-type: none"> Crop Production and Management Microorganisms- Friend and foe Conservation of Plants and Animals Cell- Structure and Functions | <ul style="list-style-type: none"> Rational Numbers Linear equations in one variable Understanding quadrilaterals Data Handling Squares and Square Roots Cubes and Cube roots Comparing quantities | <ul style="list-style-type: none"> Verbal and Non-verbal Reasoning Number and Alphabets Test Series Classification Analogy Direction Test Coding and decoding Problems based on Figures |

CLASS : IX MOVING TO X

| Physics | Chemistry | Biology | Maths | Mental Ability |
|---|---|---|--|---|
| <ul style="list-style-type: none"> Motion Force and Laws of Motion Gravitation | <ul style="list-style-type: none"> Matter in our surroundings Is Matter Around Us Pure? (excluding separation techniques) Atoms and Molecules (excluding mole Concept) | <ul style="list-style-type: none"> The Fundamental Unit of Life Tissues | <ul style="list-style-type: none"> Number Systems Polynomials Coordinate Geometry Lines and Angles Triangles Linear equations in two Variables | <ul style="list-style-type: none"> General Logical and Reasoning Analytical Reasoning Figure Matrix Problems based on Figures |



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SYLLABUS FOR NSAT-2022

FOR CLASS X TO XII Pass
(Moving students) PCM & PCB

Syllabus consists of topics from Current Class. Students are advised to find these topics from their school text books of current year and prepare thoroughly, for MCQs.

| | | | |
|--|-------------------------|-------------------------|----------------------|
| Total No. of Questions: 35 | Total Marks: 140 | Duration: 1 Hour | No Negative Marking: |
| 35 MCQs : Physics (9) Chemistry (9) Biology (10) Mathematics (10) Mental Ability (7) | | | |

CLASS : X MOVING TO XI (MED/ENGG.)*

| PHYSICS | CHEMISTRY | MATHS | BIOLOGY | MENTAL ABILITY |
|--|---|---|---|--|
| <ul style="list-style-type: none"> Light-Reflection and Refraction Human eye and colorful world (Excluding Colour of the sun at sunrise and sunset) Electricity | <ul style="list-style-type: none"> Chemical Reactions and Equations Acids Bases and Salts Metals and Non-Metals | <ul style="list-style-type: none"> Real Numbers Polynomials Pair of Linear Equations in two Variables Quadratic equations Arithmetic Progressions Coordinate Geometry Triangles Introduction to Trigonometry and its applications | <ul style="list-style-type: none"> Life Processes Control and Coordination How do Organisms Reproduce? | <ul style="list-style-type: none"> Verbal & Non-Verbal Reasoning Series Analogy Classification Coding and Decoding General Logical and Analytical Reasoning Problems based on Figures Data Interpretation |

| | | | |
|---|-------------------------|-------------------------|----------------------|
| Total No. of Questions: 35 45 JEE NEET | Total Marks: 180 | Duration: 1 Hour | No Negative Marking: |
| JEE - 35 MCQs : Physics (12) Chemistry (13) Mathematics (13) NEET - 45 MCQs : Physics (12) Chemistry (13) Biology (20) | | | |

CLASS : XI MOVING TO XII (MED/ENGG.)*

| PHYSICS | CHEMISTRY | MATHS | BOTANY | ZOOLOGY |
|--|---|---|--|---|
| <ul style="list-style-type: none"> Physical World Units and Measurements Motion in a Straight line Motion in a Plane Laws of Motion Work Energy and Power System of Particles and Rotational Motion | <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 States of Matter Thermodynamics | <ul style="list-style-type: none"> Sets Relations and Functions Trigonometric Functions Complex Numbers and Quadratic Equations Linear Inequalities Permutations and Combinations Sequences and Series | <ul style="list-style-type: none"> Cell : The Unit of Life Cell Cycle and Cell Division The Living World, Biological Classification, Morphology of Flowering Plants | <ul style="list-style-type: none"> Structural Organization in Animals: Animal Tissues Biomolecules Breathing and Exchange of Gases Body Fluids and Circulation Excretory Products and Their Elimination Locomotion and Movement |

CLASS : XII MOVING TO XII PASS (MED/ENGG.)*

| PHYSICS | CHEMISTRY | MATHS | BOTANY | ZOOLOGY |
|---|--|---|--|--|
| <ul style="list-style-type: none"> Electric charges and fields Electrostatic Potential & Capacitance Current Electricity Moving Charges and Magnetism Magnetism and Matter Electromagnetic Induction Alternating Current | <ul style="list-style-type: none"> Solid State Solutions Electrochemistry Chemical Kinetics Surface Chemistry The p-Block Elements The d-and f-Block Elements Coordination Compounds | <ul style="list-style-type: none"> Relations and Functions Inverse Trigonometric Functions Matrices Determinants Continuity and Differentiability Application of derivatives Integrals Application of Integrals | <ul style="list-style-type: none"> Sexual Reproduction in Flowering Plants Principles of Inheritance and Variation Molecular Basis of Inheritance. Microbes in Human Welfare | <ul style="list-style-type: none"> Human Reproduction Reproductive Health. Human Health and Disease Biotechnology : Principles and Processes Biotechnology and its Applications |

* Note : Engineering aspirants should attempt Physics, Chemistry & Maths Question paper. Medical aspirants should attempt Physics, Chemistry & Biology Questions paper.