

## SAFE HANDS & PACE

### SYLLABUS FOR LEAP TESTS (JEE & NEET) FOR 2024 ASPIRANTS

\* As per need we can change date or topics and changes will be communicated to the students. \*LT Means Leap Test

| Test # | Physics                                   | Chemistry  | Biology   | Mathematics  |
|--------|---|--|---|--|
| LT 01  | Units and dimension & Mathematical tools  | Redox reaction & Electrochemistry                      | Living World, Biological Classification, Plant Kingdom      | Sets, Relations, And Functions   |
| LT 02  | Motion in 1D, 2D                          | Solutions  | Morphology of Flowering Plants, Anatomy of Flowering Plants | Complex Numbers And Quadratic Equations  |
| LT 03  | Laws of motion                            | d and f block elements                                 | Cell a Unit of Life, Cell cycle and Cell division           | Matrices And Determinants  |
| LT 04  | Work energy Power                         | Co-ordination compounds                                | Respiration in Plants,                                      | Permutations & Combinations  |
| LT 05  | Syatem of particals and Rotational Motion | Atomic Structure                                       | Photosynthesis in higher plants                             | Binomial Theorem And Its Simple Applications   |
| LT 06  | Gravitation + Oscillation                 | Chemical Bonding and Molecular structures              | Plant Growth & Development,                                 | Sequence And Series  |
| LT 07  | Mechanical properties of solids           | Classification of elements & Periodicity in properties | Sexual Reproduction in Flowering Pla                        | Limit, Continuity  |
| LT 08  | Mechanical properties of fluids           | p -block elements                                      | Principles of Inheritance and variation                     | Differentiability  |
| LT 09  | Thermal properties of matter              | Chemical Kinetics                                      | Molecular basis of inheritance                              | Integral Calculas: Integral As An Anti-Derivative, Fundamental Integral Involving Algebraic, Trigonometric, Exponential, And Logarithmic Functions. Integrations By Substitution, By Parts, And By Partial Functions. Integration Using Trigonometric Identities |
| LT 10  | Thermodynamics + KTG                      | Hydrocarbons   | Organism and population, Microbes in human welfare,         | Integral Calculas: Evaluation Of Simple Integrals Of Standered Type  |

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|--------|---|---|--|---|
| LT 11  | Waves   | Organic compounds containing halogens   | Biodiversity and Its Conservation, Ec  | Integral Calculas:The Fundamental Theorem Of Calculus, Properties Of Definite Integrals. Evaluation Of Definite Integrals, Determining Areas Of The Regions Bounded By Simple Curves In Standard form |
| LT 12  | Electric charge and fields                                | Alcohol,, phenol & Eathers  | Structural Organisation in Animals, Animal Kingdom   | Differential Equations  |
| LT 13  | Electric potential and capacitors                         | Aldehyde, Ketones, Carboxylic acids   | Biomolecules, Breathing and Exchange of gases  | Co-Ordinate Geometry  |
| LT 14  | Moving charges and Magnetism + Magnetism & Matter         | Organic compounds containing Nitrogen, Biomolecules                               | Body fluids and Circulation, Excretory products and their elimination                                | Co-Ordinate Geometry: Circle  |
| LT 15  | Electromagnetic induction + Alternating current + EM wave | Purification and Charecterisation of organic compounds (Practical related topics) | Locomotion and Movement,   | Co-Ordinate Geometry Conic Section  |
| LT 16  | Optics and optical instrument                             | Some basic principles of organic chemistry  | Neural Control and Co- ordination  | Three Dimensional Geometry  |
| LT 17  | Wave optics   | Basic concepts in chemistry   | Chemical co-ordination and Integration, Reproductive Health  | Vector Algebra  |
| LT 18  | Duel Nature of radiation and matter                       | Principles related to Practicals of above topics                                  | Human Reproduction   | Statistics  |
| LT 19  | Atom , Neucleus   | Equilibrion   | Evolution  | Probability   |
| LT 20  | Semiconductor + Current Electricity                       | Chemical Thermodynamics   | Human Health and Diseases, Biotechnology and its Applications, Biotechnology: Principles & Processes | Trigonometry  |