

# MOTION<sup>®</sup> Open Scholarship Test

## Class 13<sup>th</sup> Syllabus

### Maths

Log
Quadratic
S & P
Trigo Ratio
Trigo Equation
Solutions of Triangle
Complex no.
St. Line
circle
P & C
Binomial Theorem
Parabola
Ellipse
Hyperbola
Function
ITF
Limit
C & D
MOD
Indefinite Int.
Definite Int.
Tangent & Normal
Monotonicity
Maxima & Minima
Diff. Eq.
Area under the curve
Matrix
Determinants
Vector
3D
Probability

### Physics

Unit and Dimension
Vector and Calculus
Kinematics
Errors
Constrained, NLM, Friction
Circular, WPE
Centre of Mass
Rotational
Gravitation
SHM
Waves
Sound Wave
Heat - 1
Heat - 2
Elasticity & Thermal Exp.
Fluid
Surface Tension & Viscosity
Geometrical Optics
Wave Optics
Electrostatics - I
Electrostatics - II
Current
Capacitance
Magnetism
EMI
AC
Modern Physics - 1
Modern Physics - 2
Semi Conductor
Communication

### Chemistry

Atomic Structure
Stoichiometry - I
Stoichiometry - II
Gaseous State
Nomenclature
GOC
Isomerism
Chemical Eq.
Ionic Eq.
Thermo Dynamics
Thermo Chemistry
Periodic Properties
Chemical Bonding
Block Chemistry (S-Block)
Hydrocarbon
Chemical Kinetics
Radio Activity
Surface Chemistry
Coordination
Metallurgy
Block (p,d & f)
Salt Analysis
Liquid Solutions
Solid State
Electro Chemistry
Aromatic
Alcohol & Ether
Alkyl Halide
Grignard Reagent
Carbonyl Comp.
Carbonyl Acid
Biomolecule & Polymers



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### Biology

Diversity in the living World	Locomotion and Movement
Biological Classification	Neural Control and Coordination
Plant Kingdom	Chemical Coordination & integration
Animal Kingdom	Reproduction in Organisms
Structural Organisation in Animals	Sexual Reproduction in Flowering plants
Biomolecules	Human Reproduction
Cell :The unit of the life	Reproductive Health
Cell :Cycle and Cell-Division	Principles of Inheritance and Variation
Morphology of Flowering Plants	Molecular Basis of Inheritance
Anatomy of flowering Plants	Biotechnology : Principles & Processes
Transport in Plant	Biotechnology & its Applications
Mineral nutrition	Evolution
Photosynthesis in Higher Plants	Human Health and Disease
Respiration in Plants	Strategies for Enhancement in Food production
Plant Growth and Development	Microbes in Human Welfare
Digestion and Absorption	Organism and Environment
Breathing and Exchange of Gases	Ecosystem
Body Fluids and Circulation	Environmental Issues (Pollution)
Excretory Products & Their Elimination	Biodiversity and Conservation

### Mental Ability (JEE/NEET)

Words (Alphabets)	Code
Dice	Calendar
Syllogism	Direction
Clock	Missing Number
Blood Relation	

