KVPY SB syllabus

This test is meant for students in the 1st year of the UG course. The syllabus includes topics from Class X, Class XI, Class XII and 1st year of college.

Mathematics syllabus

Polynomials
Analytical geometry in two dimension
Calculus
Coordinate Geometry
Evaluation of integrals
Geometry
Introduction to Trigonometry
Linear Programming
Mathematical Reasoning
Probability
Real Number
Relations and Functions
Statistics and Probability
Statistics and Quadratic Equations
Surface Areas and Volumes
Trigonometric Functions

Vector Algebra	
Vectors and 3D Geometry	

Biology Syllabus

biology Syllabus
Biology and Human Welfare
Cell: Structure and Function
Control and Coordination in Animals and Plants
Diversity of Living Organisms
Ecology and Environment
Genetics and Evolution
Human Physiology
Life Processes
Plant Physiology
Reproduction
Our Environment
Biotechnology
Genetics

Chemistry Syllabus

Alcohols
Aldehydes and ketones & carboxylic acid
Alkenes
Alkynes
Aromatic Compounds
Atomic structure
Basic concepts of chemistry
Biomolecules and polymers
Chemical bonding
Chemical equilibrium
Chemistry of Noble Gases
Coordination compounds
Cycloalkenes
d & f block
Dienes
Electrochemistry
ethers
Gaseous state

Haloalkanes and haloarenes
Hydrocarbon (Alkane, Alkene & Alkyne)
Ionic equilibrium
Kinetics
Nitrogen compounds
Organic chemistry basic principle
p-block
Periodicity
phenols
Qualitative Analysis
Redox
s-block
Solid-state
Solutions
Stereoisomerism
Structure and bonding
Surface chemistry Metallurgy
Thermodynamics

Physics Syllabus

Alternating current
Calorimetry and thermal expansion
Capacitance
Centre of mass
Circular Motion
Current electricity
Elasticity and viscosity
Electromagnetic induction
Electromagnetic waves
Electrostatics
Fluid mechanics
Friction
Geometrical optics
Gravitation
Heat transfer
Kinetic theory of gases and thermodynamics
Magnetic effect of current & magnetic force on charge or current
Measurement error and experiment

Modern physics-I
Newton's law of motion
Nuclear physics
Projectile motion
Rectilinear motion
Relative motion
Rigid body dynamics
Semiconductors
Simple harmonic motion
Sound waves
Surface Tension
Unit and dimension
Wave on a string
Wave optics
Work, Power and Energy
Electricity and Magnetism
Thermal physics