KVPY SA Syllabus

Students who have completed the Class X examination with 75% (65% for SC/ST/PWD) aggregate marks in mathematics and science subjects and have enrolled in Class XI can appear for stream SA. The syllabus includes topics from Class X and Class XI. The syllabus given below is based on the questions from the previous years.

Physics Syllabus

Alternating Current	
Current Electricity	
Electromagnetic Induction	
Electrostatics	
Gravity	
Kinematics	
Laws of motion	
Magnetic effects of current	
Physical-world and measurement	
Reflection of light	
Refraction	
Source of energy	
Thermodynamics	
Work, energy and power	

Chemistry Syllabus

Acids	
Basic concepts of chemistry	
Environmental Chemistry	
Chemical reactions	
Metals and non-metals	
Carbon compounds	
Gases and liquids	
Classification of elements and periodicity in properties	
Periodic classification of elements	
Salts and bases	
States of matter	
Thermodynamics	

Biology Syllabus

Cell: Structure and Function, Human Physiology	
Control and coordination in animals and plants	
Diversity of living organisms	
Heredity and Evolution	
Life Processes	

Our environment
Plant physiology
Reproduction

Mathematics Syllabus

Calculus
Relations and functions
Geometry
Introduction to trigonometry
Linear programming
Mathematical reasoning
Polynomials
Probability
Quadratic equations
Coordinate geometry
Vectors and 3-D geometry
Trigonometric functions
Surface areas and volumes
Statistics and probability