

VELAMMAL IIT/NEET ACADEMY

ONLINE SCHOLARSHIP EXAM SYLLABUS & PATTERN

For class VIII (going to Class IX in 2020)

Test duration : 1hr 15 min

Subject	No. of Questions	Syllabus
Maths	20	NUMBER SYSTEM(Integers, Fractions & Decimals, Rational numbers) GEOMETRY(Lines and Angles, Triangles and properties, Congruence of Triangles) MENSURATION(Perimeter and Area of triangles and Parallelogram, Circles, Area of Rectilinear paths) DATA HANDLING(Data Organisation , Frequency table, Mean, Median, Mode and Range, Bar Graph, Double bar graph, Chance and Probability) COMMERCIAL MATHEMATICS(Ratio & Proportion, Percentages, Profit and Loss, Simple interest) ALGEBRA(Expressions formation, Types of Expressions, Like and Unlike terms, Addition and Subtraction, Value of an Expression, Simple Equations, Exponents & Powers)
Physics	15	Force and Pressure, Friction, Light, Electricity.
Chemistry	15	1)Coal and petroleum. 2)Atomic Structure. 3)Synthetic Fibres and plastics. 4)Metals and Non - Metals. 5)Combustion and Flame .
Biology	10	Crop Production and Management, Micro organisms – Friends and Foe, Conservation of Plants and Animals, Cell-structure and Function, Reproduction in animals, Reaching the age of Adolescence, Pollution of Air and Water

For class X (going to Class XI in 2020)

Test duration : 1hr 15 min

Subject	No. of Questions	Syllabus
Maths	20	2-D Coordinate Geometry , Plane Geometry, Polynomials ,Quadratic , Mensuration, Statistics, Sets , Progressions, Trigonometry, Heights and distance, Surds , Logarithms.
Physics	15	Motion in a straight line, Work power and energy, Newton's laws of motion, Circular motion, Gravitation, Electricity, Light, pressure, Heat.
Chemistry	15	Chemical reactions and equations, Acids, bases and salts, Atomic Structure, Periodic classification of elements, solutions and mole concept, Carbon and its compounds, Alkali and alkaline earth metals.
Biology	10	Life Process(Plant physiology), Reproduction in organisms (Plants), Human physiology