

Syllabus for NTSE (National Talent Search Examination)

Paper-I: MAT (Mental Ability Test)

VERBAL REASONING

NON-VERBAL REASONING

Coding-Decoding	Series
Classification	Analogy
Analogy	Classification
Alphabet Test	Matrix
Series	Completion of figures
Complex Sequence	Embedded figure
Logical Sequence of Words	Mirror and water image
Blood Relation	Paper folding and cutting
Direction Sense Test	Counting of figures
Inserting missing character	Cubes and dice
Ranking Test	Dots situation
Arithmetical Reasoning	Grouping of Identical figures
Mathematical operation	Formation of figures
Sitting arrangement	
Clock and Calender	
Venn Diagram	
Syllogism	
Statement and Conduction	
Data Sufficiency	

Paper-II: SAT (Scholastic Aptitude Test)

MATHEMATICS (20 marks)

Number System
Basic operation on Arithmetic
Algebra
Liner Equation
Quadratic Equation
Arithmetic Progression
Introduction to Euclid's Geometry
Lines and Angles
Triangles
Quadrilaterals
Circles
Co-ordinate Geometry
Area and Perimeter
Surface Area and Volume
Trigonometry
Height and Distance
Statistics
Permutations and Combinations
Probability

SCIENCE (40 marks)

Physics

Laws of Motion
Force
Work, Power and Energy
Gravitation
Pressure and Archimedes Principle
Sound
Heat
Light: Reflection, Refraction and Human eye
Electricity
Magnetic effect of electric current
Sources of energy

Chemistry

Is matter around us pure
Atomic structure
Chemical reaction and Equations
Acids, Bases and salts
Metals and non-Metals
Carbon and its Compounds
Periodic classification of Elements
Atoms and Molecules
Matter in our surrounding

Biology

Fundamental Unit of Life
Tissues
Life processes
Control and Co-ordination
How do organism reproduce
Heredity and Evolution
Why do we fall ill
Diversity in living Organism
Our Environment
Natural Resources
Management of Natural Resources
Improvement in Food Resources

SOCIAL SCIENCE (40 marks)

History

Ancient India
Medieval India
Events and Processes
Livelihoods, Economics and Societies
Everyday life, Culture and Politics

Geography

India: Size and Location
Physical features of India
Climate
Drainage
Resources and Development
Agriculture
Manufacturing Industries
Minerals and Energy Resources
Population
Transportation: Lifeline of National Economy

Civics

Indian Constitution and its Basic features
Working of Institutions Organs of Govt.
Democracy and Related Phenomena
Electoral process in India and Political Parties
Power sharing and Federalism

Economics

Agriculture and allied Activities
People as Resource
Poverty as a Challenge
Food Security in India
Development
Sectors of the Indian Economy
Money and Credit
Globalisation and Indian Economy
Consumer Rights