

[For English Medium Students Only]

TSET-F1

Foundation Biology-1	Life Processes - Nutrition, Respiration, Transportation, Excretion, Control and Coordination
Foundation Physics-1	Electricity, Magnetic Effects of Electric Current, Sources of Energy
Foundation Chemistry-1	Chemical Reactions & Equations, Acids, Bases & Salts, Metals & Non-metals
Foundation Mathematics-1	Real Numbers, Polynomials, Linear Equations in Two Variables
Foundation Mathematics-2	Introduction to Trigonometry, Similar Triangles, Statistics
Foundation SST-1	History: The rise of nationalism in Europe, Nationalism in India Civics: Power Sharing Geography: Resources & Development, Forest & Wildlife Resources Economics: Development
Foundation SST-2	History: The Making of a Global World, The Age of Industrialisation Civics: Federalism, Democracy and Diversity, Gender, Religion & Caste Geography: Water Resources, Agriculture Economics: Sectors of the Indian Economy
Foundation English-1	Section A (Grammar): Subject verb Concord, Tenses, Prepositions, Modal Auxiliaries, Determiners, Active Passive Voice, Reported Speech, Connectors, Integrated Grammar Exercises Section B (Writing) : Letter Writing, Article Writing, Report Writing, Story Writing Section C (Literature): Figures of Speech. FIRST FLIGHT: A Letter To God, Dust Of Snow, Fire And Ice, Nelson Mandela : Long Walk To Freedom, Two Stories About Flying (Part 1 – His First Flight, Part – 2 Black Aeroplane), How To Tell Wild Animals, The Ball Poem, From The Diary Of Anne Frank, Amanda, The Hundred Dresses – I, The Hundred Dresses – II. FOOTPRINTS WITHOUT FEET: A Triumph Of Surgery, The Thief's Story, The Midnight Visitor, A Question Of Trust, Footprints Without Feet.

TSET-A TARGET :: NTSE & Olympiads

Advance Biology-1	Nutrition, Respiration, Transportation in Plants and Animals, Excretion, The Regulators of Life, The Life Cycle, Mapping our Genes, Introduction to Microbiology, Cell Biology and Biotechnology, Disaster Management
Advance Biology-2	Cell: The Unit of Life, Life : Simple and Complex, Life Around You, Highway to Health, Quality food Quality Life, Bonding with Ecosystem, Striving for Better Environment , Solid Waste : Eco-friendly Management
Advance Physics-1	Electricity and Chemical Effects of Current, Magnetic Effects of Current, Light, Sources of Energy, Heat, Miscellaneous
Advance Physics-2	Motion, Force and NLM, Gravitation, Thrust and Pressure, Work, Energy, Power, Wave and Sound, Information Communication Technology
Advance Chemistry-1	Chemical Reactions & Equations, Acids, Bases & Salts, Metals & Non-metals, Carbon and its Compounds, Periodic Classification of Elements
Advance Chemistry-2	Atoms and molecules, Structure of an atom
Advance Mathematics-1	Sets, Linear Equations in Two Variables, Number System, Surds and Indices, Polynomials, Rational Expressions, Quadratic Equations, Arithmetic Progressions, Coordinate Geometry, Trigonometry and Its Applications, Triangle, Circles and Tangent to the circle, Mensuration of Plane Figures, Mensuration of Solid Figures, Statistics, Probability, Lines and Angles, Quadrilaterals, Area of Parallelogram and Polygon, Equation of Straight Line.
Advance Mathematics-2	Every Day Mathematics: Percentage, Profit, Loss and Discount, Partnership, Mixtures and Alligations, Simple and Compound Interest, Instalments, Ratio and Proportion, Time Speed & Distance, Unitary Method, Time and Work, Pipes And Cisterns, Problems on Ages, Financial Planning
Mental Ability-1	Verbal: Series, Logical Sequence of Words, Coding & Decoding, Analogy, Classification, Logical Venn Diagrams, Mathematical Operations, Direction Sense Test, Alphabet Test, Puzzle Test, Number, Ranking & Ordering Test, Alpha-Numeric Sequence Puzzle, Inserting The Missing Characters, Calendar, Arithmetical Reasoning, Blood Relations, Statements-Conclusions, Clock, Data Sufficiency, Sequential Output Tracing.
Mental Ability-2	Non Verbal: Series, Analogy, Classification, Analytical Reasoning, Mirror Images, Water Images, Spotting Out The Embedded Figures, Completion of Incomplete Pattern, Figure Matrix, Paper Folding & Paper Cutting, Rule Detection, Construction of Shapes, Dice, Cube, Dot Situation, Grouping of Identical Figures.
Advance SST-1	History : Historiography : Development in the West, Historiography: Indian Tradition, Applied History, History of India Arts, Mass Media and History, Entertainment and History, Sports and History, Tourism and History, Heritage Management . Political Science: Working of the Constitution, The Electoral Process, Political Parties, Social and Political Movements, Challenges faced by Indian Democracy. Geography : Location & Extent, Physiography, Drainage, Climate, Natural Vegetation and Wildlife, Population, Human Settlements, Economy and Occupation, Tourism, Transport and Communication.
Advance SST-2	History: Sources of History, Challenge of Nation Building-1, India's internal challenges, Economic Development, Education,

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Empowerment of Women and other Weaker Sections, Science and Technology, Industry and Trade, Changing Life-1, Changing Life-2.
 Civics: Post World War Era and India's Foreign Policy, India's Defence System, The United Nations, India and Other Countries, International Problems
 Geography: Endogenic Movements, Exogenetic Processes Part I, Exogenetic Processes Part II, Precipitation, The Properties of Sea Water, International Date Line, Introduction to Economics and Trade, Urbanisation, Transport & Communication, Tourism

TSET-E1 (E)#TARGET:: FOUNDATION ENGINEERING

Excellent Physics Units and Dimensions, Significant Figures & Errors in Measurement, Vectors, Motion in one dimension, Projectile Motion, Circular Motion, Newton's Laws of Motion, Friction, Work, Energy & Power, Gravitation, Simple Harmonic Motion, Wave Motion
 Excellent Chemistry General Concepts in Chemistry, States of Matter, Atomic Structure, Periodic Classification of Elements, Chemical Bonding, Equilibrium, Redox reactions, Basic Concepts of Organic Chemistry.
 Excellent Mathematics-1 Sets and Relations, Functions, Complex Numbers, Logarithm, Trigonometry, Sequences and series, Binomial Theorem, Permutations and Combinations, Points, Straight Lines, Circles, Parabola, Ellipse, Hyperbola

TARGET:: NMTC ROUND-1

Excellent Mathematics-2 Algebra, Geometry, Number System, Inequalities

TSET-E1 (M)#TARGET:: FOUNDATION MEDICAL

Excellent Physics Units and Dimensions, Significant Figures & Errors in Measurement, Vectors, Motion in one dimension, Projectile Motion, Circular Motion, Newton's Laws of Motion, Friction, Work, Energy & Power, Gravitation, Simple Harmonic Motion, Wave Motion
 Excellent Chemistry General Concepts in Chemistry, States of Matter, Atomic Structure, Periodic Classification of Elements, Chemical Bonding, Equilibrium, Redox reactions, Basic Concepts of Organic Chemistry.
 Excellent Biology Diversity in Living Organisms, Cell, Cell Cycle and Cell Division, Biomolecules, Morphology of Flowering Plants, Anatomy of Flowering Plants and Animals, Plant Physiology, Animal Physiology – Animal Nutrition, Respiratory System, Circulatory System, Excretory System, Control and coordination.
 # Will be dispatched according to choice given by student at the time of enrollment for preparing for Foundation Engineering or Foundation Medical respectively.

TSET-F2

Foundation Biology-2 How do Organisms Reproduce, Heredity and Evolution, Our Environment, Sustainable Management of Natural Resources
 Foundation Physics-2 Optics: Reflection of Light, Optics: Refraction of Light, The Human Eye & The Colorful World
 Foundation Chemistry-2 Carbon and its Compounds, Periodic Classification of Elements
 Foundation Mathematics-3 Quadratic Equations, Heights and Distances, Constructions, Arithmetic Progressions
 Foundation Mathematics-4 Probability, Circles, Co-ordinate Geometry, Areas Related to Circles, Surface Areas and Volumes
 Foundation SST-3 History: Print Culture and the Modern World
 Civics: Political Parties
 Geography: Mineral and Power, Resources, Manufacturing Industries
 Economics: Money And Credit, Globalisation & The Indian Economy
 Foundation SST-4 Civics: Outcomes of Democracy, Challenges to Democracy
 Geography: Life Lines of National Economy
 Economics: Consumer Rights
 Foundation English-2 Literature: FIRST FLIGHT : Animals, Glimpses of India (Part 1 – A Baker from Goa, Part 2 – Coorg, Part 3 - Tea from Assam), The Trees, Mijbil the Otter, Fog, Madam Rides the Bus, The Tale of Custard the Dragon, The Sermon at Benares, For Anne Gregory, The Proposal.

FOOTPRINTS WITHOUT FEET: The Making of a Scientist, The Necklace, The Hack Driver, Bholi, The Book that Saved the Earth.

TSET-E2*TARGET:: NMTC FINAL ROUND

Excellent Mathematics-3 Same Topics as in Round-1
 * Module will be dispatched to NMTC Round-1 Qualified Students.

TSET-E3**TARGET:: NTSE STAGE 2

NTSE Question Bank 1 Mental Ability Test (MAT)
 NTSE Question Bank 2 Language Comprehensive Test (LCT)
 NTSE Question Bank 3 Scholastic Aptitude Test (SAT)
 Practicing NTSE Booklet of Sample Papers

** Module will be dispatched to those students who will be selected for Stage-II of the National Talent Search Examination (NTSE).