

## TN TRB Exam 2022: Exam Syllabus

The exam syllabus for TN TRB varies for each recruitment posts. The syllabus for each examination is as follows:

- PG Assistant:

Subject/Department	Topics
General Knowledge	Current Affairs Indian Constitution Personalities History of India & Tamil Nadu Abbreviations Every Day Science Sports & Games
Educational Methodology	Environmental Education Non-formal and Adult Education Special problems of rural and tribal people Eradication of poverty through Education The channel of International communication Pre-primary Education Nutrition and health National Educational Policy (1986), etc. Role of Educational Institutions Implications for the teacher Role of rewards and punishments National Integration
Syllabus - English	Shakespeare Approaches to Literature American Literature Indian Writing in English Modern Literature (1400 to present-day) – Prose, Drama, Poetry Principles of Literary Criticism History of English Language Linguistics
Syllabus - Maths	Operations Research Real Analysis Algebra Fourier series and Fourier Integrals Differential Geometry & Equations Statistics – I, II Functional & Complex Analysis
Syllabus - Physics	Electronics (Digital) Probability and Theory of errors Classical mechanics Statistical Mechanics Vector Fields Quantum mechanics

	Spectroscopy Solid State Physics Nuclear Physics Electromagnetic theory
Syllabus - Chemistry	Application of Schrodinger equation, radioactivity VB theory, MO theory, and its applications Non-aqueous solvents Heterocyclic Optical activity and concept of chirality Conformational analysis Organic reaction mechanisms Periodic properties Old quantum theory Theory and applications of spectroscopic methods, reaction rates, etc. Thermodynamic equations of state Organometallic compounds Solid-state & Co-ordination chemistry, properties

- Lecturer:

<b>Subject/Department</b>	<b>Topic</b>
Civil Engineering	Engineering Mathematics Mechanics Structural Analysis Concrete Structures Steel Structures Soil Mechanics Foundation Engineering Fluid Mechanics and Machines and Hydrology Water Supply and Waste Water Disposal Highway Engineering
Mechanical Engineering	Engineering Mathematics Applied Mechanics and Strength of Materials Theory of Machines and Design Fluid Mechanics and Hydraulic Machinery Heat Transfer Thermodynamics Manufacturing Engineering Machining and Machine Tool Operations Production Planning and Control Operations Research
Electrical and Electronics Engineering	Engineering Mathematics Electric Circuits and Fields Digital Signal Processing Electrical Machines

	Power Systems Protection and Switchgear Control System Electrical and Electronics Measurements Analog and Digital Electronics Power Electronics and Drives
Electronics and Communication Engineering	Engineering Mathematics Networks Electromagnetics Electronic Devices and Circuits Digital Circuits CMOS VLSI Systems Signal Processing Control Systems Analog and Digital Communication Systems Computer Communication
Electronics And Instrumentation Engineering & Instrumentation And Control Engineering	Engineering Mathematics Circuit Theory Analog And Digital Electronics Electrical And Electronic Measurements Control Systems Transducers And Smart Sensors Industrial And Analytical Instrumentation Digital Signal Processing Process Control Logic And Distributed Control System
Computer Engineering	Mathematics Digital Logic And Computer Architecture Data Structures And Algorithms System Programming And Operating Systems Database Systems Theory Of Computation And Compiler Design Computer Networks Computer Graphics And Multimedia Software Engineering Web Technologies
Information Technology	Engineering Mathematics Theory Of Computation Digital Logic Computer Organization And Architecture Programming And Data Structures Algorithms Operating System Databases Information Systems And Software Engineering Computer Networks
Production Engineering	Engineering Mathematics

	<p>Engineering Materials And Engineering Mechanics</p> <p>Theory Of Machines And Design</p> <p>Fluid Mechanics And Thermal Engineering</p> <p>Metal Casting And Forming Syllabus For Competitive Examination</p> <p>Metal Joining Processes</p> <p>Machining And Machine Tool Operations</p> <p>Metrology And Inspection</p> <p>Powder Metallurgy And Newer Production Processes</p> <p>Quality Control, Process Analysis And Modern Manufacturing Systems</p>
Textile Technology	<p>Raw Materials</p> <p>Fibre To Yarn Conversion</p> <p>Yarn/Filament To Fabric</p> <p>Wet Processing</p> <p>Manufacture Of Filament Yarns</p> <p>Mathematics And Computation In Textiles</p> <p>Mechanics Of Textile Machinery</p> <p>Textile Physics</p> <p>Textile Chemistry</p> <p>Business In The Textile Industry</p>
Technology Lecturer	<p>Basics</p> <p>Pre-Press</p> <p>Image Preparation</p> <p>Press</p> <p>Post Press And Converting Operations</p> <p>Printing Materials</p> <p>Package Materials And Technology</p> <p>Advertising, Scheduling, And Cost Estimation</p> <p>Publishing</p> <p>Quality Control In Printing</p>
English	<p>Chaucer To Shakespeare</p> <p>Jacobean To Augustan Age</p> <p>Romantic Period</p> <p>Victorian Age</p> <p>Modern And Contemporary Periods</p> <p>American Literature</p> <p>Indian And English Literature</p> <p>Language And Linguistics</p> <p>Criticism And Literary Theories</p> <p>Post-Colonial Literature And European Literature In Translation</p>
Mathematics	<p>Real Analysis</p> <p>Complex Analysis</p> <p>Algebra</p> <p>Topology</p> <p>Measure Theory And Functional Analysis</p>

	Differential Equations Ordinary Differential Equations Mechanics And Continuum Mechanics Mathematical Statistics And Numerical Methods Mathematical Statistics Differential Geometry And Graph Theory Differential Geometry Graph Theory Mathematical Programming And Fluid Dynamics Mathematical Programming
Physics	Mathematical Methods Classical Mechanics And Relativity Quantum Theory And Its Applications Electromagnetic Theory Thermodynamics And Statistical Mechanics Atomic And Molecular Physics Condensed Matter Physics Nuclear And Particle Physics Electronics Experimental Physics
Chemistry	Analytical Chemistry Structure and Bonding Nuclear Chemistry Chemistry of Transition Elements Differentiation of asymmetric and dissymmetric molecules Mechanism of SN-1 Organic synthesis Numbering and synthesis Quantum Chemistry Chemical-Kinetics Group theory Electrochemistry
Modern Office Practice	Accounts & Finance Financial Management Human Resource Management Economics Marketing Income Tax And Tax Planning International Trade Research Methodology And Quantitative Techniques Banking And Financial Institutions Computers In Business

- Assistant Elementary Educational Officer (AEEO):

Subject/Department	Topic
English	British Literature

	<p>Social History of England  Language and Linguistics  Literary Forms  American Literature  History of English Literature  Indian Writing in English</p>
Physics	<p>Optics  Thermal Physics and Acoustics  Magnetism and Electricity  Electronics  Basic Quantum Mechanics and Relativity  Materials Science  Modern Physics  Mechanics, Properties of Matter and  Mathematical Methods  Spectroscopy  Nuclear Physics</p>
Mathematics	<p>Differential Equations  Algebra  Modern Algebra  Complex Analysis  Dynamics  Calculus  Analytical Geometry and Trigonometry  Vector Analysis and Analytical Solid  Geometry  Statics  Real Analysis</p>
Organic Chemistry	<p>Organic Chemistry I  Inorganic Chemistry I  Industrial Chemistry  Analytical Chemistry  Biological Chemistry  Organic Chemistry II  Inorganic Chemistry II  Pharmaceutical Chemistry  Physical Chemistry I  Physical Chemistry II</p>
Zoology	<p>Genetics And Biotechnology  Life and Diversity of Animals  Developmental Biology and Immunology  Cell Biology  Animal Physiology  Microbiology  Environmental Biology  Endocrinology  Aquaculture, Sericulture, Apiculture,  Pisciculture, and Land and Water as  Biological Media</p>
Botany	<p>Bryophytes, Pteridophytes, Gymnosperms</p>

	and Pale botany Algae and Fungi Ecology and Toxicology Plant Breeding and Evolution Taxonomy of Angiosperms Lichens, Plant Viruses, Bacteria and Plant Diseases Plant Anatomy and Embryology Plant Bio-Chemistry and Plant Physiology Cell Biology and Genetics Biotechnology–Genetic Engineering and Tissue Culture
Geography	Oceanography Geomorphology Geography of the World with Special Reference to India Cartography Environmental Geography Human Geography Climatology Economic Geography Disaster Management Remote Sensing and Geographical Information Systems
History	An Outline History of Tamil Nadu up to A.D. 1987 Main Currents in Indian History from Early times to A.D.1984 History of Europe from A.D. 1453 to 1990

- Agricultural Instructor:

<b>Subject/Department</b>	<b>Topic</b>
General Ability	Data Sufficiency Puzzles Verbal Reasoning Numbers and Ages Areas Pipes and Cisterns Time and Distance Ratio and Proportion Non-Verbal Reasoning Logical Reasoning Simple Interest Data Interpretation Odd Man Out Probability Analytical Reasoning Time and Work Partnership Problems on Trains

General Studies	<p>General Science  Current Affairs – Regional, National, and International  Policies of Tamil Nadu State  Geography of India  History of Modern India &amp; Indian National Movement  Geography of Tamil Nadu State  History of Tamil Nadu and Movement for Tamil Nadu Statehood  Science and Technology  International Relations and Events  Environmental issues  Society, Culture &amp; Heritage of Tamil Nadu State  Disaster Management  Arts and Literature of Tamil Nadu State  The economy of India &amp; Tamil Nadu State  Indian Constitution &amp; Polity</p>
Agricultural Paper	<p>Post-Harvest Technology  Historical developments in Agriculture  Extension Education  Types of Soils  Sustainable Management  Afforestation  Horticultural crops  Watershed Management  Agricultural Economics  Biodiversity  Herbicides and Fungicides  Ultra Structure of Plant cells  Cell structure  Neurophysiology  Integrated Farming Systems  Fertilizer control  Plant Genetic Resources  Insect morphology  Importance of Agriculture  Tissue culture and Plant Genetic Engineering  Plant Diseases  Agro-based industries  Weed flora and their management  The importance of Horticulture in Telangana  Silviculture  Environmental Pollution and Prevention  Global warming</p>
Reasoning	<p>Alphabet series  Logical Reasoning  Basic English  Sitting Arrangements</p>



	Coding Decoding Interest Directions Mixtures & Allegations Analytical Ability Time & Distance Time & Work Diagrammatic series Number series Data Interpretation Water images Profit & Loss Mirror Images Percentages
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