TN TRB PG Assistant Exam Pattern 2019

Name of Subject	Number of Questions	Number of Marks
Main Subject	110	110
Education Methodology	30	10
General Knowledge	10	10
Total	150	150

Exam Type: Objective Type MCQs; Time Duration: 3 hours

TN TRB PG Assistant Exam Syllabus:

General Knowledge

- About India.
- History India & World.
- Cultural Heritage.
- General Science.
- Space & IT.
- Science & Technology.
- Scientific observations.
- International issues.
- Abbreviations.
- Indian Constitution.
- National news (current).
- Indian Culture.
- Economy.
- Political Science.
- Indian National Movement.
- Indian Polity & Governance.
- General Politics.
- Awards and Honors.
- Culture.
- Economic Scene.
- Everyday Science.
- Sports and Games.
- Science Inventions & Discoveries.
- Important Days.
- Important Financial & Economic News.
- Current Affairs National & International.
- Indian Constitution.
- Indian Constitution.

Education Methodology Syllabus

- Implications for the teacher
- Role of rewards and punishments

- National Integration
- Special problems of rural and tribal people
- Eradication of poverty through Education
- The channel of International communication
- Pre-primary Education
- Environmental Education
- Non-formal and Adult Education
- Nutrition and health
- National Educational Policy (1986).
- Role of Educational Institutions

Main Subject 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

Mathematics

- Operations Research
- Real Analysis
- Algebra
- Fourier series and Fourier Integrals
- Differential Geometry & Equations
- Statistics I, II
- Functional & Complex Analysis

Physics

- Electronics (Digital)
- Probability and Theory of errors
- Classical mechanics
- Statistical Mechanics
- Vector Fields
- Quantum mechanics
- Spectroscopy
- Solid State Physics
- Nuclear Physics
- Electromagnetic theory

Chemistry

- Application of Schrodinger equation, radioactivity
- VB theory, MO theory, and its applications
- Nonaqueous solvents
- Heterocyclics
- 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

Zoology

- Classification Binomial Nomenclature
- Biological Chemistry
- Role of minor and major elements in metabolism enzymes
- Cell and Molecular Biology
- Genetics-Gene Interactions
- Physiology, Nutrition
- Antigens and Antibodies
- Evolution
- Man and Biosphere

Botany

- Viruses, Bacteria, Thallophytes, and Lichens
- Plant Pathology and Microbiology
- Bryophytes, Pteridophytes, and Gymnosperms
- Morphology, Taxonomy and Economic Botany
- Cell Biology and Genetics
- Anatomy and Embryology
- Plant Physiology and Bio-Chemistry
- Plant Breeding and Bio-Technology
- Ecology and Phytogeography
- Palaeo Botany and General Principles

