

Telangana Social & Tribal Welfare Residential Educational Institutions Societies



TTWREIS Subject Associate Exam Pattern

Subject Name	Number of Questions	Number of Marks
Choose the desired Subject		
Maths	50	100
Chemistry	50	100
Physics	50	100
Botany	50	100
Zoology	50	100
Time Duration: 90 Minutes		

Note

- 2 marks will be awarded for each correct answer
- And, there will be negative $\frac{1}{2}$ marks for every wrong answer

TTWREIS Subject Associate Syllabus

Mathematics

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- Relations and Functions
- Logarithms
- Complex Numbers
- Quadratic Equations
- Sequences and Series
- Trigonometry
- Cartesian System of Rectangular Coordinates
- Statistics
- Differentiation
- Introduction to Three Dimensional Geometry
- Straight Lines
- Circles
- Conic Sections
- Permutations and Combinations
- Vectors
- Exponential and Logarithmic Series
- Sets and Set Theory
- Probability Function
- Limits and Continuity
- Applications of Derivatives
- Indefinite Integrals Binomial Theorem
- Matrices
- Determinants
- Definite Integrals

Chemistry

- General Chemistry
- Structure of Atom
- Electrochemistry
- Periodicity
- Alcohols
- Haloalkanes

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- Aldehydes
- Phenols
- Ketones
- Ethers
- General Organic Chemistry
- Carboxylic Acids
- Biomolecules
- Hydrocarbons
- Environmental Chemistry
- Amines
- Chemistry in Everyday Life
- Solid State
- Solutions
- Classification of Elements
- Molecular Structure
- Chemical Bonding
- Surface Chemistry
- Redox Reactions
- Chemical Kinetics
- States of Matter
- Equilibrium
- Thermodynamics
- Processes of Isolation of Elements
- Coordination Compounds
- P, D, F Block Elements
- Hydrogen
- D Block Elements
- Alkali and Alkaline earth metals (S Block)
- Haloarenes

Physics

- Mathematical Methods
- Classical Mechanics

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- Relativity
- Nuclear and Particle Physics
- Quantum Theory and its Applications
- Electromagnetic Theory
- Electronics
- Experimental Physics
- Atomic
- Molecular Physics
- Condensed Matter Physics
- Thermodynamics
- Statistical Mechanics

Zoology

- Animal Diversity I: Non-chordate
- Animal Diversity II: Chordate
- Microbiology
- Parasitology & Immunology
- Cell Biology & Genetics
- Histology, Endocrinology
- Reproductive Biology
- Molecular Biology and Biotechnology
- Animal Physiology
- <https://www.freshersnow.com/syllabus/>
- Biochemistry
- Developmental Biology
- Evolution
- Systematics & Animal behavior
- Ecology and Environmental Biology
- Applied Zoology and Biostatistics

Botany

- Physiology

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- Biology
- Chemistry
- Bio-Diversity
- Molecular biology
- Genetics
- Ecology, etc.