

Tolani Maritime Institute (TMI)



TMISAT Exam Pattern

Mode of Examination	Online
Exam Level	10+2
Duration of Examination	90 Minutes
Total Number of Questions	80 Questions
Sections	Physics, Mathematics, Analytical and Logical Reasoning
Negative Marking	Negative Marking in one section each in Physics and Mathematics

TMISAT Syllabus

Physics

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

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Mathematics

- Relations and Functions
- Logarithms
- Complex Numbers
- Quadratic Equations
- Sequences and Series
- Trigonometry
- Cartesian System of Rectangular Coordinates
- <https://exams.freshersnow.com/>
- 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

Analytical and Logical Reasoning

- Alphanumeric series
- Reasoning Analogies
- Artificial Language
- Blood Relations
- Calendars
- Cause and Effect
- Clocks
- Coding-Decoding

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- Critical path
- Cubes and cuboids
- Puzzles
- Pattern Series and Sequences
- Order & Ranking
- Seating Arrangements
- Shape Construction
- Data Sufficiency
- Decision Making
- Deductive Reasoning/ Statement Analysis
- Dices
- Directions
- Embedded Images
- Figure Matrix
- Input-Output
- Mirror and Water Images
- Odd One Out
- Picture Series and Sequences
- Paper Folding
- Statement and Assumptions
- Statement and Conclusions
- Syllogism