

RITES Engineer Exam Pattern

Exam Structure

Objective Type

Subjects Involved

Reasoning

English

Numerical Ability

General Awareness

Technical Subjects (Civil Engineering,
Electrical Engineering, Mechanical
Engineering, Structural Engineering)

RITES Engineer Syllabus

General Topics

Reasoning

- Number Series.
- Letter and Symbol Series.
- Verbal Classification.
- Essential Part.
- Analogies.
- Artificial Language.
- Matching Definitions.
- Making Judgments.
- Verbal Reasoning.
- Logical Problems.
- Statement and Conclusion.
- Theme Detection.
- Cause and Effect.
- Statement and Argument.
- Logical Deduction.

English

- Vocabulary.
- Fill in the blanks.
- Grammar.
- Spot the error.
- Antonyms.
- Synonyms/ Homonyms.
- Sentence structure.
- Spellings.

- Detecting Mis-spelt words.
- One word substitutions.
- Idioms and phrases.
- Improvement.
- passage.
- Verbal Comprehension passage.
- Verbs.
- Adjectives.
- Clauses.

Numerical Ability

- Operations Research & Linear Programming.
- Algebra.
- Differential Geometry.
- Differential Equations.
- Dynamics.
- Statistics.
- Basic Mathematics.
- Analytical Geometry.
- Calculus.
- Statics.
- Percentages. Menstruation.
- Fractions.
- The relationship between Numbers.
- Fundamental arithmetical operations.
- Number Systems.
- Computation of Whole Numbers.

General Awareness

- Static GK.
- General Science.
- Current Affairs.

Topics For Static GK

- Indian History.
- Politics.
- Geography.
- Arts.
- Culture.

Topics For General Science

- Physics.

- Chemistry.
- Defense.
- Agriculture.
- Space.
- Environment.
- Biology.
- Agriculture.

Topics For Current Affairs

- Economy.
- Banking.
- Awards.
- Sports.
- International Affairs.
- Current Events.

Technical Subjects

Civil Engineering

- Civil Engineering Materials and Construction.
- Solid Mechanics, Structural Analysis.
- Concrete Technology.
- Reinforced Concrete Structures.
- Steel Structures.
- PSC Structures.
- Fluid Mechanics.
- Hydrology & Water Resources Engineering.
- Hydraulic Structures.
- Soil Mechanics and Foundation Engineering.
- Transportation Engineering.
- Environmental Engineering.
- Surveying.
- Bridge Engineering.
- Estimation, Costing, and Specifications.
- Construction and Project Management.
- Environmental Studies etc.

Structural Engineering

- Theory of Structures
- Concrete Technology
- RCC Design
- Steel Design

Electrical Engineering

- Electromagnetic Theory.
- Electrical Instrumentation.
- Electronics Devices.
- Analog and Digital Electronics.
- Control Systems.
- Electrical Machines.
- Network Analysis.
- Power System Analysis & Control.
- Power System Protection.
- Power Electronics & Drives.
- Power Systems.
- Utilization of Electrical Energy.
- Switch Gear and Protection etc.

Mechanical Engineering

- Calculus
- Vector Calculus
- Differential Equations
- Numerical Methods
- Probability & Statistics
- Engineering Mechanics
- The Strength of Materials
- Theory of Machines
- The design of Machine Elements
- Heat-Transfer
- Fluid Mechanics
- Thermodynamics
- Power Plant Engineering
- Refrigeration and air-conditioning
- Turbomachinery
- Engineering Materials
- Metal Casting
- Forming Processes
- Joining Processes
- Operations
- Metrology and Inspection
- Operations Research
- Inventory Control
- Production Planning and Control
- Manufacturing Analysis
- Tool Engineering
- Metrology and Inspection