

Ramagundam Fertilizers & Chemicals Limited (RFCL)



RFCL Non Executive Exam Pattern | Group C

| Name of the Subject | Number of Questions | Number of Marks |
|--|---------------------|-----------------|
| Course Curriculum, Disciplinary Related | 100 | 100 Marks |
| General English, Quantitative Aptitude, Reasoning & General Knowledge/ Awareness | 50 | 50 Marks |
| Exam Type: Multiple Choice Questions Time Duration: 120 Minutes | | |

RFCL Group C Syllabus

Chemistry

- General Chemistry
- Structure of Atom
- Electrochemistry
- Periodicity
- Solutions
- Classification of Elements
- Molecular Structure
- Solid State
- Surface Chemistry
- Redox Reactions
- Chemical Kinetics
- Chemical Bonding
- Equilibrium

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- Thermodynamics
- Processes of Isolation of Elements
- States of Matter
- P, D, F Block Elements
- Ketones
- Ethers
- Hydrogen
- D Block Elements
- Hydrocarbons
- General Organic Chemistry
- Carboxylic Acids
- Biomolecules
- Coordination Compounds
- Haloarenes
- Alcohols
- Haloalkanes
- Alkali and Alkaline earth metals (S Block)
- Phenols
- Aldehydes
- Environmental Chemistry
- Amines
- Chemistry in Everyday Life

Physics

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

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- Relativity
- Electromagnetic Theory
- Experimental Physics

General Aptitude

- Time and Work Partnership
- Ratio and Proportion
- Boats and Streams
- Time and Distance
- Problems on Trains
- Areas
- Indices and Surds
- Odd Man Out
- Simple Equations
- Probability
- Profit and Loss
- Quadratic Equations
- Compound Interest
- Volumes
- Simple Interest
- Numbers and Ages
- Mixtures and Allegations
- Mensuration
- Races and Games
- Problems on L.C.M and H.C.F
- Pipes and Cisterns
- Percentages
- Permutations and Combinations
- Problems on Numbers
- Averages
- Simplification and Approximation

General English

- Antonyms

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- Active and Passive Voice
- Substitution
- Sentence Improvement
- Spelling Test
- Substitution
- Passage Completion
- Synonyms
- Sentence
- Completion
- Error Correction (Underlined Part)
- Transformation
- Spotting Errors
- Prepositions
- Sentence Arrangement
- Fill in the blanks
- Idioms and Phrases
- Para Completion
- Joining Sentences
- Error Correction (Phrase in Bold)

Reasoning

- Mirror Images
- Grouping Identical Figures
- Figure Matrix Questions
- Alphabet Series
- Decision Making
- Inference
- Analogy
- Problems on Age Calculation
- NonVerbal Series
- Test of Direction Sense
- Number Series
- Coding and Decoding
- Arguments

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- Ven Diagram
- Blood Relations
- Number Ranking
- Arithmetical Reasoning

General Awareness

- National Dance
- Music & Literature
- Scientific observations
- Political Science
- Famous Places in India
- World organizations
- Countries and Capitals
- About India and it's neighboring countries
- Science and innovations
- Books and Authors
- Important Dates
- Economic problems in India
- Indian Culture
- New inventions
- Geography of India
- National and International current affairs

Mathematics

- Relations and Functions
- Logarithms
- Statistics
- Quadratic Equations
- Sequences and Series
- Complex Numbers
- Trigonometry
- Cartesian System of Rectangular Coordinates
- Straight Lines
- Differentiation

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- Introduction to Three Dimensional Geometry
- <https://www.freshersnow.com/syllabus/>
- Permutations and Combinations
- Circles
- Conic Sections
- Sets and Set Theory
- Vectors
- Exponential and Logarithmic Series
- Applications of Derivatives
- Probability Function
- Limits and Continuity
- Determinants
- Indefinite Integrals Binomial Theorem
- Matrices
- Definite Integrals