

Vector Control Research Centre (VCRC)



VCRC Exam Pattern - Technical Assistant & Other Posts

- Aptitude
- General Knowledge
- general English
- Reasoning
- Technical Subjects

VCRC Technical Assistant Syllabus | Other Posts

Aptitude

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

Vector Control Research Centre (VCRC)



- Quadratic Equations
- Probability
- Profit and Loss
- Simplification and Approximation

General Knowledge

- International and National Organizations
- Indian National Movement
- Sports
- Current Affairs – National and International
- Abbreviations
- Important Days
- Indian History
- Books and Authors
- Awards and Honors
- Capitals of India
- Indian Economy
- Budget and Five Year Plans
- Countries and Capitals
- General Policy
- Science and Technology
- Science – Inventions & Discoveries

General English

- Spellings/Detecting Mis-spelt words
- Antonyms and its correct usage
- Common Error
- Active/Passive Voice of Verbs
- Comprehension Passage
- Spot the Error
- Cloze Passage
- Fill in the Blanks
- Shuffling of Sentence parts
- Conversions

Vector Control Research Centre (VCRC)



- Sentence Rearrangement
- Grammar
- Shuffling of Sentences in a passage
- Improvement of Sentences
- Synonyms/ Homonyms
- Antonyms
- Vocabulary
- Idioms & Phrases
- One word substitution

Reasoning

- Number Ranking
- Figurative Classification
- Classification
- Figural Pattern
- Cubes and Dice
- Analogies
- Non-Verbal Series
- Coding-Decoding
- Logical Venn Diagrams
- Directions
- Number, Ranking & Time Sequence
- Blood Relations
- Arrangements
- Arithmetical Reasoning
- Mathematical Operations
- Venn diagrams
- Number Series

Zoology

- Quantitative Biology
- Invertebrates
- Cell Biology
- Animal Physiology

Vector Control Research Centre (VCRC)



- Genetics
- Structural Biology
- Biostatistics
- Environmental Physiology
- Developmental Biology
- Computations in Life Sciences
- Immunology
- Microbiology
- Biotechnology

Life Sciences

- Chemistry
- Biotechnology
- Botany
- Microbiology
- Zoology
- Food Technology

Computer Applications

- MS Word, Microsoft OneNote
- Microsoft Access
- Introduction to Computer Science
- Boolean Algebra
- Computer Networks
- MS Visio and MS Excel
- Microsoft Outlook
- The Internet
- Workplace Productivity Tools
- MS Project, Microsoft Publisher
- Emerging Technologies and Web Publishing
- PC Software and Office Automation
- Database Management System
- Data Structures

Vector Control Research Centre (VCRC)



- MS PowerPoint

Microbiology

- Medical Microbiology
- Food Microbiology
- Clinical Research
- Molecular biology
- Biochemistry
- Industrial Microbiology
- Bioinformatics
- Microbial-Technology

Electrical Engineering

- Non-conventional Energy sources like Wind, Solar, Biomass
- Measurement of Electrical Power
- Present Power Sector scenario in India and others Electrical
- Power Engineering
- Distribution Network Installation & load studies
- Functions of capacitors & reactors
- Low Voltage constraint & resolving thereof
- Analysis of Dist Transformers, Meters & Testing
- Engineering topics
- Switchgear & protection (MC/LV) & LT Switchgear design and testing
- Distribution HT/LT Line parameters
- Performance of line fault analysis

Refrigeration & Air Conditioning

- History of Refrigeration and Air conditioning
- Applications
- Methods of producing low temperatures
- Review of Fundamentals
- Air Cycle Refrigeration Systems
- Vapour Compression Refrigeration Systems

Vector Control Research Centre (VCRC)



- Vapour Absorption Refrigeration Systems
- Lithium bromide-Water Absorption Refrigeration Systems
- Aqua - Ammonia Refrigeration System
- Reciprocating Compressors
- Centrifugal Compressors
- Screw compressors
- Psychrometry
- Infiltration and IAQ
- Heating and Cooling load calculations

Catering & Hospitality Assistant

- Research Design & Applied Statistics
- Advanced Hospitality Management
- Rooms Division
- Food & Beverage
- Human Resource Management
- Tourism
- Sales and Marketing
- Strategic Management
- Financial Management

Computer Operator & Programming Assistant

- Office Automation
- Smart Accounting
- Web design and maintenance
- Computer maintenance.
- Computer Training in schools and institutes.
- Cyber Cafe setup and management.
- IT online support

Medical Laboratory Technology

- Blood banking
- Microbiology

Vector Control Research Centre (VCRC)



- Cytotechnology
- Phlebotomy
- Urine analysis
- Clinical Chemistry
- Hematology
- Immunology

Sociology/ Social Work

- Sociology - The Discipline
- Sociology as Science
- Research Methods and Analysis
- Sociological Thinkers
- Stratification and Mobility
- Works and Economic Life
- Politics and Society
- Religion and Society
- Systems of Kinship
- Social Change in Modern Society

Chemistry

- General Chemistry
- Structure of Atom
- Electrochemistry
- Periodicity
- Solid State
- Solutions
- Classification of Elements
- Molecular Structure
- Chemical Bonding
- Surface Chemistry
- Redox Reactions
- Phenols
- Ketones
- Ethers

Vector Control Research Centre (VCRC)



- General Organic Chemistry
- Carboxylic Acids
- Biomolecules
- Hydrocarbons
- Environmental Chemistry
- Amines
- Chemistry in Everyday Life
- 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
- Alcohols
- Haloalkanes
- Aldehydes

Computer Science/ Information Technology

- Computer Networks
- Databases
- Theory of Computation
- <https://www.freshersnow.com/syllabus/>
- Operating System
- Programming and Data Structures
- Web Technologies
- Compiler Design
- Digital Logic
- Algorithms
- Computer Organization and Architecture

Vector Control Research Centre (VCRC)



- Information Systems and Software Engineering etc