Indian Navy

Indian Navy Chargeman Group B Syllabus - General Knowledge/ Awareness

- **Economics**
- The basic definition of economics
- Current Economic Scenario
- **Geography**
- Basic Indian Geography
- **Political Science**
- Basics of Indian Constitution
- **Current Affairs**
- Sports & Entertainment
- Defense Updates
- Eminent Personalities(Indian)
- Capitals/ Currencies
- Indian Politics
- Important International/ National Facts

Indian Navy Chargeman Syllabus 2019

- **Basic Mathematics**
- Quadratic Equations
- Logarithm & Mathematical Table
- The basic concept of vectors and its numerical
- **Time & Work**
- Basic Question-Pipes, Cisterns
- **Time & Distance**
- Average Speed & Relative Speed
- Trains & Platforms
- **Elementary Statistics & Probability**
- Calculation of Mean, Mode & Median
- Numerical on Probability
- Data Analysis
- Control Charts
- **Trignometry**
- Trigonometric Ratios
- Complementary Angles

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- **Matrix Algebra**
- Calculation of inverse and Eigenvalues
- **Area and Volume**
- Calculation for pyramid,cone,sphere,cylinder etc, with problems
- **Problem Solving**
- Blood relations
- Directions
- Arrangements
- **Nonverbal Reasoning**
- Embedded figure
- Matrix
- Trends
- **Coding/ Decoding**
- Number based coding

General English Syllabus Topics

- **Basic Grammar**
- Tenses
- Change to active/ passive voice
- Correction of sentences
- Punctuation, Determines
- Use of adjectives, verbs, pronouns, and prepositions
- **Vocabulary**
- One word substitution
- Spelling correction
- Synonyms
- **Passage**
- Questions based on the passage
- Shuffling of Sentence Parts

Indian Navy Chargeman Applied Science & Specialisation Syllabus

- **Physics**
- Newton's laws of motion
- Archimedes Principle
- Numerical on Work, Power, Friction and Force

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- Laws of Electricity & Magnetism
- Numerical on current, voltage, resistance
- Elasticity, Surface tension, Viscosity
- Projectile motion concept and numerical
- **Applied Science/ Specialisation**
- Laws of thermodynamics and Carnot cycle
- Kinetic Theory of gases, Charles law, Boyle's law'
- Thermal Conductivity, Fourier's law of heat conduction
- Conduction, Convection, Radiation concepts
- Corrosion and its preventive measures
- Partial pressure and Vapour pressure
- Organic Chemistry-types of polymers with examples
- Chemical Equation Balancing
- Concepts of Ph Value, Calorific value, Flashpoint and Fire Point and their measurement techniques
- Methods of measuring of Calorific value, Ph Value & Flashpoint
- Classification, purpose, and principles of heat treatment
- **Miscellaneous**
- Fire safety and precautions
- Types of fire extinguishers and their end use
- Working knowledge of computers
- Concepts- Quality Control, Quality Assurance, and Total Quality Management
- Working knowledge of precision measuring instruments
- Quality Standards(ISO), Sampling Plans
- Units, Least count of measurement-Numericals