COAST GUARD NAVIK (GD)

SECTION-I

- SCIENCE
- MATHEMATICS
- ENGLISH
- REASONING
- GENERAL AWARENESS

SCIENCE

- Nature of Matter, Universe (Planets/Earth/Satellites/Sun), Electricity and its application
- Force and Gravitation, Newton's Laws of Motion, Work, Energy and Power Heat & Temperature, Metals and Non-metals, Carbon and its Compounds, Measurements in Science, Sound & Wave Motion, Atomic Structure

MATHEMATICS

- Mathematical Simplification, Ratio and Proportion, Algebric Identities, Linear Equation and Polynomials, Simultaneous Equations, Basic Trigonometry
- Simple Mensuration, Geometry, Measures of Central Tendency (Average, Median and Mode)
- Interest, Profit, Loss and Percentage, Work, Time, Speed and Distance ENGLISH
- Passage, Preposition, Correction of sentences, Change active to Passive/Passive to active voice.
- Change direct to Indirect/Indirect to Direct, Verbs/ Tense/Non Finites, Punctuation.
- Substituting phrasal verbs for expression, Synonyms and antonyms, Meaning of difficult words.
- Use of adjectives, Compound Preposition.
- Use of pronouns.



REASONING

 Spatial, Numerical Reasoning and Associative Ability, Sequences, Spellings Unscrambling, Coding and Decoding.

GENERAL AWARENESS

- Geography: Soil, Rivers, Mountains, Ports, Inland, Harbours
- Culture and Religion, Freedom, Movement, Important National Facts about India, Heritage, Arts, and Dance
- History, Defence, Wars and neighbours, Awards and Authors, Discoveries, Diseases and Nutrition
- Current Affairs, Languages, Capitals and Currencies, Common Names, Full Forms and Abbreviations
- Eminent Personalities, National Bird/Animal/Sport/Flower/Anthem/Song/Flag/Mountains
- Sports: Championships/Winners/Terms/Number of Players

SECTION-II

- > PHYSICS
- > MATHEMATICS

PHYSICS

- Physical world and measurement, Kinematics, Laws of Motion, Work, Energy and Power. Newton's laws and applications, circular motion.
- Motion of System of particles and rigid body, gravitation, Property of Bulk Matter, thermodynamic, behavior of perfect gas and kinetic theory, Oscillation and Waves.
- Electrostatics, Current Electricity, Magnetic Effects of current and magnetism, Electromagnetic Induction and alternating currents, Electromagnetic Waves.
- Optics, Dual Nature of matter and radiation, Atom and Nuclei
- Electronic devices, Communicating systems



MATHEMATICS

- Sets, Relations and Functions
- trigonometric functions.
- Algebra
- Principle of Mathematical Induction,
- complex numbers and quadratic equations,
- linear inequalities,
- permutation and combinations,
- binomial theory,
- sequence and series,
- Matrices,
- determinants.
- Vector and Three Dimensional Geometry
- Liner Programming
- Coordinate Geometry
- Straight lines,
- conic section,
- introduction to three-dimensional geometry.
- Calculus
- Limits and derivatives,
- · Continuity and differentiability,
- Applications and derivatives,
- Integrals, applications of the integrals,
- differential equations.
- Mathematical Reasoning Probability
- Statistics, Probability.
- Mathematical Simplification,
- Ratio and Proportion,
- Algebric Identities,
- Linear Equations and Polynomials,
- Simultaneous Equations,
- Basic Trigonometry
- Relations and Functions
- Measures of Central Tendency (Average, Median and Mode)