

Coast Guard Navik (General Duty) Syllabus

Section – I

Sr No.	Science	Mathematics	English	General Awareness	Reasoning
01	Nature of Matter, Universe (Planets / Earth / Satellites / Sun), Electricity and its application	Mathematical Simplification, Ratio and Proportion, Algebraic Identities, Linear Equations and Polynomials, Simultaneous Equations, Basic Trigonometry	Passage, Preposition, Correction of sentences, Change active to passive/passive to active voice.	Geography: Soil, Rivers, Mountains, Ports, Inland, Harbours	Spatial, Numerical Reasoning & Associative Ability, Sequences, Spellings Unscrambling, Coding and Decoding
02	Force and Gravitation, Newton's Laws Of Motion, Work, Energy and Power	Simple Mensuration, Geometry, Measures of Central Tendency (Average, Median and Mode)	Change direct to indirect/indirect to direct, Verbs/Tense/Non Finites, Punctuation.	Culture and Religion, Freedom Movement, Important National Facts about India, Heritage, Arts and Dance	
03	Heat, Temperature, Metals and Non-Metals, Carbon and its Compounds, Measurements in Science, Sound & Wave Motion, Atomic Structure	Interest, Profit, Loss and Percentage, Work, Time, Speed and Distance	Substituting phrasal verbs for expression, Synonyms and Antonyms, Meanings of difficult words.	History, Defence, Wars and neighbours, Awards and Authors, Discoveries, Diseases and Nutrition	
04	-	-	Use of adjectives, Compound preposition.	Current Affairs, Languages, Capitals and Currencies, Common Names, Full Forms and Abbreviations	
05	-	-	Use of pronouns	Eminent Personalities, National Bird / Animal / Sport / Flower / Anthem / Song/ Flag / Mountains	
06	-	-	-	Sports: Championships / Winners /Terms / Number of Players	



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Section II

Sr No.	Physics	Mathematics
01	Physical world and measurement, Kinematics, Laws of Motion, Work, Energy and Power. Newtons laws and applications, circular motion.	<u>Sets, Relations and Functions</u> - Set, Relations and Functions trigonometric functions. <u>Algebra</u> - Principle of Mathematical induction, complex numbers and quadratic equations, linear inequalities, permutation and combinations, binomial theory, sequence and series, Matrices, determinants. <u>Vector And Three Dimensional Geometry</u> - Vectors, and three dimensional geometry <u>Liner Programming</u>
02	Motion of System of particles and rigid body, gravitation, Property of Bulk Matter, thermodynamics, behavior of perfect gas and kinetic theory, Oscillation and Waves.	<u>Coordinate Geometry</u> - Straight lines, conic section, introduction to three-dimensional geometry. <u>Calculus</u> - Limits and derivatives, Continuity and differentiability, Applications and derivatives, Integrals, applications of the integrals, differential equations.
03	Electrostatics, Current Electricity, Magnetic Effects of current and magnetism, Electromagnetic Induction and alternating currents, Electromagnetic Waves.	<u>Mathematical Reasoning</u> <u>Probability</u> - Statistics, Probability. Mathematical Simplification, Ratio and Proportion, Algebraic Identities, Linear Equations and Polynomials, Simultaneous Equations, Basic Trigonometry
04	Optics, Dual Nature of matter and radiation, Atom and Nuclei	<u>Relations And Functions</u> - Relations and Functions, inverse trigonometric functions. Simple Mensuration, Geometry, Measures of Central Tendency (Average, Median and Mode
05	Electronic devices, Communicating systems	

