

# **Indian Coast Guard Assistant Commandant (Group A) Syllabus 2017**

## **Indian Coast Guard AC Syllabus for Mental Ability Test (MAT)**

### **Indian Coast Guard Group A Syllabus for Mathematics**

- Algebra.
- Complex Numbers.
- Mathematical Induction.
- Partial fractions.
- Matrices.
- Theory of Equations.
- Hyperbolic Functions.
- Permutations and Combinations.
- Additions of Vectors.
- Binomial Theorem.
- Trigonometry.
- Probability.
- Inverse Trigonometric Functions.
- Properties of Triangles.
- The product of Vectors.
- Random Variables and Probability Distributions.
- The Straight Line.
- Coordinate Geometry.
- Parabola.
- Locus.
- Hyperbola.
- Transformation of Axes.
- Pairs of Straight Lines.
- Integration.
- Circle.
- Ellipse.
- The system of circles.
- Limits and Continuity.
- Definite Integrals.
- Differentiation.
- Three-Dimensional Coordinates.
- Applications of Derivatives.
- Differential equations.
- Direction Cosines and Direction Ratios etc

## **ICG Assistant Commandant Syllabus 2017 for English**

- Verb.
- Tenses.
- Direct/Indirect Speech.
- Adverb.
- Subject-Verb Agreement.
- Fill in the Blanks.
- Transformation of Sentences.
- Articles.
- Active & Passive Voice.
- Sentence Rearrangement.
- Synonyms.
- Vocabulary.
- Comprehension.
- Antonyms
- Idioms & Phrases.
- Grammar.
- Unseen Passages etc.

## **Indian Coast Guard AC Syllabus 2017 for General Knowledge**

- History - India & .
- Geography - India & .
- Cultural Heritage.
- General Polity.
- Indian National Movement.
- About India.
- Science & Technology.
- Indian Constitution.
- Current Affairs - National & International
- Economy etc.

## **ICG Assistant Commandant (Group A) Syllabus for Physics**

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

- Nuclear and Particle Physics
- Experimental Physics

### **Indian Coast Guard Syllabus 2017 for Basic Chemistry**

- Photochemistry
- Electrochemistry
- Thermodynamics
- Organic Synthesis
- Quantum Chemistry
- Chemical Kinetics
- Bio-inorganic chemistry
- Chemistry of Transition Elements
- Inorganic reaction mechanism
- Nuclear chemistry
- Acids and Bases
- Redox Reactions
- Structure and Bonding
- Analytical Chemistry
- Analytical Techniques

### **Indian Coast Guard Assistant Commandant Syllabus for Numerical Aptitude**

- The test of Arithmetical and Numerical abilities.
- Number Systems including questions on Simplification.
- Ratio & Proportion.
- L.C.M.
- Decimals.
- H.C.F.
- Fractions.
- Discount.
- Percentage.
- Average.
- Profit & Loss.
- Simple & Compound Interest.
- Mensuration.
- Time & Work.
- Time & Distance.
- Tables & Graphs, etc

## **Indian Coast Guard Syllabus for Picture Perception and Discussion Test**

In the Picture Perception and Discussion Test, Candidates are provided a picture and you have to observe the given picture for 30 seconds. After the completion of 30 seconds, Aspirants must write a creative essay on the given picture within 4 minutes.

## **Indian Coast Guard Final Selection Test Syllabus**

### **Thematic Apperception Test**

In this round, a PPT of 30 seconds is given and you will be asked to write a story within the duration of 4 minutes.

### **Work Association Test**

Under this test, officials will show you 60 words in the successive duration of 15 seconds. Aspirants are required to write about their thoughts using those 60 words in one single sentence or line.

### **Situation Reaction Test**

In this round, you have to write about your reactions to the given situations.

### **Self Description Test**

Under this test, Candidates has to describe themselves within 15 minutes.