



## NAVY AA - ARTIFICER APPRENTICE

- **SCIENCE**
- **MATHEMATICS**
- **ENGLISH**
- **GENERAL AWARENESS**

### SCIENCE

- Physical World and Measurement.
- Kinematics, Laws of Motion.
- Work, Energy and Power.
- Motion of System of Particles and Rigid Body.
- Gravitation.
- Mechanics of Solids and Fluids.
- Heat Thermodynamics.
- Oscillations.
- Waves.
- Electrostatics.
- Current Electricity
- Magnetic Effect of Current and magnetism.
- Electromagnetic Induction and Alternating Current.
- Electromagnetic Waves
- Optics.
- Dual Nature of Matter and Radiations.
- Atomic Nucleus.
- Solid and Semi-Conductor Devices.
- Principles of Communication
- Metals and Non Metals.
- Organic Chemistry.
- Food, Nutrition and Health.
- Physiology and Human Diseases.
- Basic Computer Science



## **MATHEMATICS**

- Relations and Functions.
- Logarithms.
- Complex Numbers.
- Quadratics Equations.
- Sequences and Series.
- Trigonometry.
- Cartesian System of Rectangular Coordinates.
- Straight Lines Family of Straight Lines.
- Circles.
- Conic Section
- Permutations and Combinations.
- Vectors.
- Exponential and Logarithmic Series.
- Sets and Set Theory.
- Statistics.
- Introduction to Three Dimensional – Geometry.
- Probability Function.
- Limits and Continuity.
- Differentiation.
- Applications of Derivatives.
- Indefinite Integrals Binomial Theorem.
- Matrices.
- Determinants.
- Definite Integrals

## **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.
- Meanings of difficult words.
- Use of adjective.
- Compound preposition.
- Determiners (use of a, the, any etc).
- Use of pronouns

### **GENERAL AWARENESS**

- Culture and Religion.
- Geography : Soil, Rivers, Mountains, Ports, Inland Harbours, Freedom Movement.
- Sports : Championships/ Winners/ Terms/ No of Players, Defence, Wars and Neighbours, current Affairs.
- Important National Facts about INDIA : Heritage, Arts, Dance, History, National-Languages, Bird, Animal, Song, Flag, Monuments, Capitals & Currencies
- Common Names.
- Full forms and Abbreviations
- Discoveries.
- Diseases and Nutrition.
- Award and Author.
- Eminent Personalities
- Spatial.
- Numerical.
- Reasoning & Associative Ability: Sequences, Spellings Unscrambling, Coding and Decoding.