

**Note:**

- (a) Fee once paid shall not be refunded under any circumstances nor can the fee be held in reserve for any other examination or selection.
- (b) In case fees has been deducted from your account without Application form being generated please wait for seven to ten working days for automatic refund of money to your account.

9. **Examination City.** The list of examination cities for different states has been indicated in the filling instructions and options for choice is made available in the application form. The candidates are to choose any three choices of cities from the list. The Indian Navy reserves the right to cancel/ re-conduct examination for a particular centre or allot/ change the city of the candidate beyond the choices indicated by the candidates for administrative or other reasons. In case of more number of candidates applying for one city, a few candidates may be allotted to any other city. Request for change of examination city/centre/date/session will not be entertained under any circumstances.

10. **Mode of Selection.**

- (a) **Screening of Applications.** Indian Navy will screen all applications registered online, as per eligibility criteria and terms and conditions specified by Government of India from time to time. Merely fulfilling the basic selection criteria does not automatically entitle a person/applicant to be called for the online test.
- (b) **Scheme of Examination.** All shortlisted/eligible candidates will have to appear in the online computer based examination (Discipline wise) consisting of 100 objective type questions based on syllabus as appended below:-
- (c) **Syllabus for Chargeman (Mechanic).** Indicative syllabus is as follows:-

(i) <b>Section I – General Knowledge/ Awareness</b>		
<b>Sr No</b>	<b>Topic Name</b>	<b>Sub-Topic Name</b>
(aa)	Economics	Basic definition of economics Current Economic Scenario
(ab)	Geography	Basic Indian Geography
(ac)	Political Science	Basics of Indian Constitution
(ad)	Current Affairs	Sports & Entertainment Defence Updates Eminent Personalities(Indian) Capitals/Currencies Indian Politics Important International/ National Facts
<b>Indicative Reference/Source</b>		
<ul style="list-style-type: none"> <li>• Daily Newspaper</li> <li>• General Knowledge books by various authors/publications</li> </ul>		

<b>(ii) Section II-Quantitative Aptitude / Logical Reasoning</b>		
<b><u>Sr No</u></b>	<b><u>Topic Name</u></b>	<b><u>Sub-Topic Name</u></b>
(aa)	Basic Mathematics	Quadratic Equations
		Logarithm & Mathematical Table
		Basic concept of vectors and its numerical
(ab)	Time & Work	Basic Question-Pipes, Cisterns
(ac)	Time & Distance	Average Speed & Relative Speed
		Trains & Platforms
(ad)	Elementary Statistics & Probability	Calculation of Mean, Mode & Median
		Numerical on Probability
		Data Analysis
(ae)	Trigonometry	Trigonometric Ratios
		Complementary Angles
(af)	Matrix Algebra	Calculation of inverse and Eigen values
(ag)	Area and Volume	Calculation for pyramid, cone, sphere, cylinder etc, with problems
(ah)	Problem Solving	Blood relations
		Directions
		Arrangements
(aj)	Non verbal reasoning	Embedded figure
		Matrix
		Trends
(ak)	Coding/Decoding	Number based coding
<b>Indicative Reference/Source</b>		
<ul style="list-style-type: none"> <li>• NCERT Mathematics Books</li> </ul>		

<b>(iii) Section III-General English</b>		
<b><u>Sr No</u></b>	<b><u>Topic Name</u></b>	<b><u>Sub-Topic Name</u></b>
(aa)	Basic Grammar	Sentence completion
		Active voice/ Passive voice
		Sentence Correction
		Articles
		Fill in the blanks with suitable adjectives/verbs/pronouns/ prepositions
(ab)	Vocabulary	One word substitution
		Spelling correction
		Synonyms and Antonyms.
(ac)	Passage	Cloze test
		Sentence Re-arrangement
<b>Indicative Reference/Source</b>		
<ul style="list-style-type: none"> <li>• NCERT English Text books till Class X<sup>th</sup></li> </ul>		

<b>(iv) Section IV -Applied Science &amp; Specialisation</b>		
<b>Sr No</b>	<b>Topic Name</b>	<b>Sub-Topic Name</b>
(aa)	Physics	Newton's laws of motion
		Archimedes Principle
		Numerical on Work, Power, Friction and Force
		Laws of Electricity & Magnetism
		Numerical on current, voltage, resistance
		Elasticity, Surface tension, Viscosity
		Projectile motion concept and numericals
(ab)	Applied Science/ Specialisation	Laws of thermodynamics and Carnot cycle
		Concepts of Engg Drawing- First angle, Third angle and isometric projection
		Concepts of limits, fits and tolerances
		Basics of Workshop technology – Lathe machining, Drilling, grinding, shaping, plotting, etc.
		Concepts of Heat Treatment, corrosion treatment and case hardening
		Corrosion and its preventive measures
		Properties of ferrous and nonferrous materials
		Working principles of semiconductors, diode, electric motors and transformers
		Basic principle of Arc welding and gas welding
		Concepts of Ph Value, Calorific value, Flash point and Fire Point and their measurement techniques
		Classification and application of turbines, boilers and compressors
		Classification, purpose and principles of heat treatment
(ac)	Miscellaneous	Fire safety and precautions
		Types of fire extinguishers and their end use
		Working knowledge on computers
		Concepts- Quality Control, Quality Assurance and Total Quality Management
		Working knowledge on precision measuring instruments
		Quality Standards(ISO), Sampling Plans
		Units, Least count of measurement-Numericals
<b>Indicative Reference/Source</b>		
<ul style="list-style-type: none"> <li>• NCERT Books on Physics and Chemistry till X<sup>th</sup> Class</li> <li>• Open source literature</li> </ul>		

(d) **Syllabus for Chargeman (Ammunition and Explosive).** Indicative syllabus is as follows:-

<b>(i) Section I – General Knowledge/ Awareness</b>		
<b>Sr No</b>	<b>Topic Name</b>	<b>Sub-Topic Name</b>

(aa)	Economics	Basic definition of economics Current Economic Scenario
(ab)	Geography	Basic Indian Geography
(ac)	Political Science	Basics of Indian Constitution
(ad)	Current Affairs	Sports & Entertainment Defence Updates
		Eminent Personalities(Indian) Capitals/Currencies Indian Politics Important International/ National Facts
<b>Indicative Reference/Source</b>		
<ul style="list-style-type: none"> <li>• Daily Newspaper</li> <li>• General Knowledge books by various authors/publications</li> </ul>		

<b>(ii) Section II-Quantitative Aptitude /Logical Reasoning</b>		
<b>Sr No</b>	<b>Topic Name</b>	<b>Sub-Topic Name</b>
(aa)	Basic Mathematics	Quadratic Equations Logarithm & Mathematical Table Basic concept of vectors and its numerical
(ab)	Time & Work	Basic Question-Pipes, Cisterns
(ac)	Time & Distance	Average Speed & Relative Speed Trains & Platforms
(ad)	Elementary Statistics & Probability	Calculation of Mean, Mode & Median Numerical on Probability Data Analysis
(ae)	Trigonometry	Trigonometric Ratios Complementary Angles
(af)	Matrix Algebra	Calculation of inverse and Eigen values
(ag)	Area and Volume	Calculation for pyramid, cone, sphere, cylinder etc, with problems
(ah)	Problem Solving	Blood relations Directions Arrangements
(aj)	Non verbal reasoning	Embedded figure Matrix Trends
(ak)	Coding/Decoding	Number based coding
<b>Indicative Reference/Source</b>		
<ul style="list-style-type: none"> <li>• NCERT Mathematics Books</li> </ul>		

<b>(iii) Section III-General English</b>		
<b>Sr No</b>	<b>Topic Name</b>	<b>Sub-Topic Name</b>

(aa)	Basic Grammar	Sentence Completion
		Active voice/ Passive voice
		Sentence Correction
		Articles
		Fill in the blanks with suitable adjectives/verbs/pronouns/ prepositions
(ab)	Vocabulary	One word substitution
		Spelling correction
		Synonyms and Antonyms
(ac)	Passage	Cloze Test
		Sentence Re-arrangement
<b>Indicative Reference/Source</b>		
• NCERT English Text books till Class X <sup>th</sup>		

<b>(iv) Section IV -Applied Science &amp; Specialisation</b>		
<b>Sr No</b>	<b>Topic Name</b>	<b>Sub-Topic Name</b>
(aa)	Physics	Newton's laws of motion
		Archimedes Principle
		Numerical on Work, Power, Friction and Force
		Laws of Electricity & Magnetism
		Numerical on current, voltage, resistance
		Elasticity, Surface tension, Viscosity
		Projectile motion concept and numericals
(ab)	Applied Science/ Specialisation	Laws of thermodynamics and Carnot cycle
		Basics of inorganic chemistry
		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, Flash point and Fire Point and their measurement techniques
		Methods of measuring of Calorific value, Ph Value & Flash point
		Classification, purpose and principles of heat treatment
(ac)	Miscellaneous	Fire safety and precautions
		Types of fire extinguishers and their end use
		Working knowledge on computers
		Concepts- Quality Control, Quality Assurance and Total Quality Management
		Working knowledge on precision measuring instruments
		Quality Standards(ISO), Sampling Plans

(iv) <b>Section IV -Applied Science &amp; Specialisation</b>		
<b>Sr No</b>	<b>Topic Name</b>	<b>Sub-Topic Name</b>
		Units, Least count of measurement-Numericals
<b>Indicative Reference/Source</b>		
<ul style="list-style-type: none"> <li>• NCERT Books on Physics and Chemistry till X<sup>th</sup> Class</li> <li>• Open source literature</li> </ul>		

(d) **Date of Examination.** Exact date, time and venue of online test will be communicated to the shortlisted candidates on registered mobile phone number/e-mail ID. Websites [www.joinindiannavy.gov.in](http://www.joinindiannavy.gov.in) and [www.indiannavy.nic.in](http://www.indiannavy.nic.in) may also be referred from time-to-time for any further instructions.

(e) **Provisional Appointment Letter.** The appointment of provisionally selected candidates will be strictly based on their relative merit position in examination subject to verification of documents, Medical Examination and other requirements as specified by the Government of India and Appointing Authority.

(f) **Document Verification.** All documents pertaining to age, education, identity, address, category, caste validity certificate and work experience certificate, disability certificate etc. will be scrutinized and verified as per extant DoP&T policy. Date and Venue for document verification will be intimated to the provisionally selected candidates on their registered mobile phone/e-mail IDs and by post.

11. **Opening and Closing date for Online Application.**

Online registration of applications (Opening date).	At 1000 h on 13 May 19
Last date of registration (Closing date)	At 2300 h on 26 May 19

12. **Guidelines for filling Online Application.**

(a) Candidates are required to apply online on the website [www.joinindiannavy.gov.in](http://www.joinindiannavy.gov.in) >> **Join Navy >> Ways to join >> Civilians >> Chargeman (Mech) & Chargeman (Ammn & Explosive)**. Before filling online application form, applicants are advised to read and download How to Apply guidelines containing instructions for filling up Online Application Form.

(b) The applicant must possess the required criteria as mentioned in the advertisement.

(c) Applicants are not to send copy of application form or any document to this office. However candidates are to take a printout of Application Form for his / her personal record. A print out of the **ADMIT CARD IS TO BE BROUGHT TO THE VENUE FAILING WHICH THE CANDIDATE WILL NOT BE ALLOWED TO APPEAR FOR THE EXAMINATION.**

(d) If the candidates commit any mistake in filling the online application form, it cannot be corrected by Indian Navy. Indian Navy will take no responsibility of any kind for such application forms.

(e) The applicants must ensure that while filling their application form, they are providing their valid and active e-mail IDs and mobile number as Indian Navy may use either mode of