(Rupees Two hundred and five only) excluding applicable taxes and charges through online mode by using net banking or by using Visa/ Master/ RuPay Credit/ Debit Card/ UPI. Admit card will be issued for the examination only to those candidates who have successfully paid the examination fee or who are entitled to waiver of examination fee.

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 you have made an online payment of fees and money has been deducted from your account without admit card being generated (i.e unsuccessful payment), please wait for 7 working days for automatic refund of money to your account.
- 9. Examination Centre. The list of examination cities for different states have been indicated in the filling instructions and options for choice is made available in the application form. The candidates are to choose any three choice of city 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) <u>Screening of Applications</u>. 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) <u>Scheme of Written Examination</u>. 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).

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

Reference/Source

- Manorama Year Book
- Daily Newspaper
- General Knowledge 2019 books by various authors/publications

<u>Sr</u>	Topic Name	Sub-Topic Name
No (aa)	Basic Mathematics	Quadratic Equations
(aa)	Dasic Mathematics	Logarithm & Mathematical Table
		Basic concept of vectors and its numerical
(ah)	Time & Work	Basic Question-Pipes, Cisterns
(ab)	Time & Distance	Average Speed & Relative Speed
(ac)	Time & Distance	Trains & Platforms
(nd)	Flomonton	
(ad)	Elementary	Calculation of Mean, Mode & Median
	Statistics &	Numerical on Probability
	Probability	Data Analysis
, ,	-	Control Charts
(ae)	Trignometry	Trignometric 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	Embedded figure
	reasoning	Matrix
		Trends
(ak)	Coding/Decoding	Number based coding
	ence/Source	
NC	ERT Mathematics Boo	oks
0.000	- I- W	tive Aptitude by Arun Sharma

Quantitative Aptitude by RS Agarwal

(iii) Section III-General English		
<u>Sr</u> No	<u>Topic Name</u>	<u>Sub-Topic Name</u>
(aa)	Basic Grammar	Tenses Change to active/passive voice Correction of sentences
		Punctuation, Determines

		Use of adjectives, verbs, pronouns and prepositions
(ab)	Vocabulary	One word substitution
		Spelling correction
		Synonyms
(ac)	Passage	Questions based on passage
		Shuffling of Sentence Parts
Refe	rence/Source	

- English Grammar- Wren and Martin
 Instant Vocabulary Ida Ehrlich
 NCERT English Text books till Class Xth
 Objective General English by SP Bakshi

	(iv) Section IV -Applied Science & Specialisation		
<u>Sr</u> No	Topic Name	Sub-Topic Name	
(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	
	Applied Science/	Laws of thermodynamics and Carnot cycle	
(ab)	Specialisation	Concepts of Engg Drawing- First angle, Third angle and	
	Ko	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	

(iv) Section IV -Applied Science & Specialisation		
<u>Sr</u> No	Topic Name	Sub-Topic Name
		Working knowledge on precision measuring instruments
		Quality Standards(ISO),Sampling Plans
		Units, Least count of measurement-Numericals

Reference/Source

- NCERT Books on Physics and Chemistry till Xth Class
- Production Technology by Dr P C Sharma
- Workshop Technology by S K Hajra Choudhury
- Engg Thermodynamics by Pandey & Choudhary
- Fundamentals of Computer by V Rajaraman
- Open source literature
- (d) Syllabus for Chargeman (Ammunition and Explosive). The detailed syllabus is available at Naval Website www.joinindiannavy.gov.in under filling instructions. Indicative syllabus is as follows:-

(i)	Section I – Genera	
<u>Sr</u> No	<u>Topic Name</u>	<u>Sub-Topic Name</u>
(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

Reference/Source

- Manorama Year Book
- Daily Newspaper
- General Knowledge 2019 books by various authors/publications

(ii) Section II-Quantitative Aptitude /Logical Reasoning		
Sr No	<u>Topic Name</u>	Sub-Topic Name
(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	Calculation of Mean, Mode & Median

Statistics &	Numerical on Probability
Probability	Data Analysis
	Control Charts
Trignometry	Trignometric Ratios
	Complementary Angles
Matrix Algebra	Calculation of inverse and Eigen values
Area and Volume	Calculation for pyramid,cone,sphere,cylinder
	etc, with problems
Problem Solving	Blood relations
	Directions
	Arrangements
Non verbal	Embedded figure
reasoning	Matrix
	Trends
Coding/Decoding	Number based coding
	Probability Trignometry Matrix Algebra Area and Volume Problem Solving Non verbal reasoning

Reference/Source

- Teach Yourself Quantitative Aptitude by Arun Sharma
 Quantitative Aptitude by RS Agarwal

(iii) Section III-General English		
Sr Topic Name	Sub-Topic Name	
(aa) Basic Grammar	Tenses	
	Change to active/passive voice	
	Correction of sentences	
	Punctuation, Determines	
	Use of adjectives, verbs, pronouns and	
	prepositions	
Vocabulary	One word substitution	
(ab)	Spelling correction	
	Synonyms	
(ac) Passage	Questions based on passage	
	Shuffling of Sentence Parts	

- English Grammar- Wren and Martin
- Instant Vocabulary Ida Ehrlich
- NCERT English Text books till Class Xth
- · Objective General English by SP Bakshi

(iv) Section IV -Applied Science & Specialisation		
Sr No	Topic Name	Sub-Topic Name
(aa)	Physics	Newton's laws of motion
		Archimedes Principle
		Numerical on Work, Power, Friction and Force

	(iv) Section	on IV -Applied Science & Specialisation
Sr No	Topic Name	Sub-Topic Name
		Laws of Electricity & Magnetism
		Numerical on current, voltage, resistance
		Elasticity, Surface tension, Viscosity
		Projectile motion concept and numericals
(ab)	Applied Science/	Laws of thermodynamics and Carnot cycle
	Specialisation	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 opf 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
	205	Concepts- Quality Control, Quality Assurance and Total
	1) 60	Quality Management
		Working knowledge on precision measuring
		instruments
		Quality Standards(ISO), Sampling Plans
		Units, Least count of measurement-Numericals
eference/Source		

- NCERT Books on Physics and Chemistry till Xth Class
- Production Technology by Dr P C Sharma
- Workshop Technology by S K Hajra Choudhury
- Engg Thermodynamics by Pandey & Choudhary
- Fundamentals of Computer by V Rajaraman
- Open source literature
- (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 and www.indiannavy.nic.in may also be referred from time-totime for any further instructions.
- **Provisional Appointment Letter.** The appointment of provisionally selected candidates will be strictly based on their relative merit position in written examination subject to verification of documents, Medical Examination and other requirements as specified by the Government of India and Appointing Authority.