

(v)	Departmental Candidates with 03 yrs continuous service in Central Government	UR-05 years. (for posts which are in the same line or allied cadres and where a relationship could be established that the service already rendered in a particular post will be useful for the efficient discharge of the duties of post). Similarly for OBC - 08 (03+05) Years, SC/ST-10 (05+05) Years
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Relaxation of other eligible categories will be considered as per extant Government orders.

(b) **Crucial date** The crucial date for determining the age limit will be the closing date for receipt of Online Application from candidates. Only Matriculation/SSC/Birth Certificate issued by concerned Education Board/Competent Authority will be considered as proof of Date of Birth.

7. **Mode of Selection.**

(a) **Scheme of Written Examination** - All eligible candidates will have to appear in the written examination. (Discipline – wise, probably on same day) consisting of 100 objective type questions based on syllabus as appended below:-

(A) **Syllabus for Chageman (Mechanic)**

i. **General English** (a) Questions based on passage,(b) Change to passive/ active voice,(c) Punctuation (d) Use of adjectives, use of verbs, use of pronouns, prepositions (e) Tenses, (f) Substituting phrasal verbs for expression, (g) One word substitution, (h) Correction of sentences. **(10 marks)**

ii. **Numerical Ability/ Logical Reasoning:** (a) Basic Maths, quadratic equations, use of logarithm & Mathematical tables, average, percentage, ratio and proportion (b) Determination of area of ellipse, parabola, hyperbola and other irregular, surfaces (c) Surface area and volume of pyramid, cone, sphere, cylinder etc. with problems (d) Basic idea of function, limits, continuity, differential and integral calculus (e) Scalars and vectors, vector algebra, dot, cross and triple product (f) Matrix algebra, calculation of inverse, Eigen values and Eigen vectors (g) Elementary logical problems (h) Elementary statistics-calculation of mean, median, mode, data analysis.**(10 marks)**

iii. **Science & Technology:** (a) Newton's laws of motion, Archimedes principle, mass, weight, density, gravity (b) Numerical on work, force, power, friction, inclined plane, lever (c) Basics of optics and laws of reflection/refraction, wave propagation (d) Propagation of sound waves, Doppler effect, ultrasonic, waves (e) Laws of electricity & magnetism with numerical on current, voltage resistors etc, Gauss's law, AC circuits, oscillators (f) Elasticity, surface tension, viscosity and escape velocity problems (g) Safety precaution & fire prevention, use of various fire extinguishers (h) Knowledge of various precision measuring instruments and their counts (i) Knowledge of mechanical engineering drawing (first and third angle projection, isometric view) (j) Knowledge of

limit, tolerance, Geometric tolerance clearance, fits, jigs & fixtures, dies, punches, taps, drills, template, reamers, bearings screw threads pulleys, V- belts, nuts, bolt, stud, keys, cotters, pins, crash shafts, cam shafts, fasteners, rivets, press tools, journals, pipe, tubes, various power transmission, machine foundation, pattern making, coupling, bearing, moulding, forging, arc/gas/Tig/Mig/Friction/Spot/Stitch Welding, soldering, brazing, silvering, gas cutting etc (k) Properties of ferrous & non-ferrous material, various heat treatment, corrosion treatments & case hardening (l) Working Principles of various types of engines (I.C.E & E.C.E) (m) Knowledge of various machinery (Lathe/Shaper/Jig boring/ Grinding, Drilling, Planer etc) Usage of various hand tools and its maintenance (n) Working knowledge on computer & internet. **(70 Marks)**

iv. **General Knowledge:** (a) Current affairs (b) Defence (Army/Navy/Air Force) related Acronyms (c) Eminent personalities (Indians/foreigners) (d) Navy related (Ship, Ports) (e) Important national facts (f) Capitals & currencies (g) Sports & Entertainment (h) Regional geography. **(10 Marks)**

(B) Syllabus for Chargeman (Ammunition & Explosive)

i. **General English:** (a) Questions based on passage, (b) Change to passive/ active voice, (c) Punctuation, (d) Use of adjectives, use of verbs, use of pronouns, prepositions, (e) Tenses, (f) Substituting phrasal verbs for expression, (g) One word substitution, (h) Correction of sentences. **(10 marks)**

ii. **Numerical Ability/ Logical Reasoning:** (a) Basic Maths, quadratic equations, use of logarithm & mathematical tables, average, percentage, ratio and proportion (b) Determination of area of ellipse, parabola, hyperbola and other irregular, surfaces (c) Surface area and volume of pyramid, cone, sphere, cylinder etc with problems (d) Basic idea of function, limits, continuity, differential and integral calculus (e) Scalars and vectors, vector algebra, dot, cross and triple product (f) Matrix algebra, calculation of inverse, Eigen values and Eigen vectors (g) Elementary logical problems (h) Elementary statistics calculation of mean, median, mode, data analysis. **(10 marks)**

iii. **Science & Technology:** (a) Newton's laws of motion, Archimedes principle, mass, weight, density, gravity (b) Numerical on work, force, power, friction, inclined plane, levers (c) Basics of optics and laws of reflection/refraction, wave propagation (d) Propagation of sound waves, Doppler effect, ultrasonic, waves (e) Laws of electricity & magnetism with numerical on current, voltage resistors etc, Gauss's law, AC circuits, oscillators (f) Elasticity, surface tension, viscosity and escape velocity problems (g) Kinetic theory of gases – Boyle's law, Charles' law (h) Basics of inorganic chemistry (i) Chemical Equation Balancing (j) Safety precaution & fire prevention, use of fire extinguishers (k) Elementary knowledge on properties of aluminium, copper, iron, steel alloys (l) Knowledge of various precision measuring instruments and their least count, (m) Working Knowledge on computer & internet. **(70 Marks)**

iv. **General Knowledge:** (a) Current affairs (b) Defence (Army/Navy/Air Force) related Acronyms (c) Eminent personalities (Indians/foreigners) (d) Navy related (Ship, Ports) (e) Important national facts (f) Capitals & currencies (g) Sports & Entertainment (h) Regional geography. **(10 Marks)**

The question paper will be provided in English and Hindi languages only. Selection of candidates will be purely based on the performance in the Written Test and the Merit list drawn Discipline - wise thereof.

(b) **Date of Examination.-** Exact date, time and venue of written examination will be communicated on the Admit Card issued to the eligible applicants. Websites **www.hqwncrecruitment.com** and **indiannavy.nic.in** may also be referred from time to time for any further instructions.

(d) **Provisional Appointment Letter-** The appointment of provisionally selected candidates in each discipline will be strictly based on the overall merit position in written examination prepared discipline-wise, subject to satisfaction of Document Verification, Medical Examination and other requirement as specified, by the Government of India and Appointing Authority.

(e) **Document Verification-** All relevant documents pertaining to registration of application, age, education, identity, address, category, caste validity certificate etc. will be scrutinized and verified prior to provisional appointment as per extant DOP&T policy. Date and venue for document verification will be intimated to the provisionally selected candidates on their registered e-mail IDs and by post.

(f) **Scribe-** Visually Impaired (VH) candidates with visual disabilities of more than 40 percent and cerebral palsy candidates can avail the assistance of a scribe in the written examination subject to such request of scribe being made in application form. The other facilities will also be extended, as per Dept. of Disability Affairs OM F. No. 16- 110/2003-DD.III dated 26 Feb 2013.

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

Online registration of applications (Opening date)	On the fourth day of publication in Employment News.
Last date of registration (Closing date)	Twenty First day from Online registration Opening date (upto 1700 hrs).

9. **Guidelines for filling Online Application**

(a) Candidates are required to apply online using the website **www.hqwncrecruitment.com**. The link for submitting online application form will open on fourth **day** from the date of issue of Advertisement in the Employment News and it will remain open for next **21 days from the opening date of online registration**. Before filling online application form, applicants are advised to download online **Information Guidelines** containing detailed instructions for filling up online application form.