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Responsibility



The Name of Quality

Reliable



Manohar E. Patil Sir's
Academy

NDA - CDS

CAPF - AFCAT

NDA-CDS

CAPF - AFCAT - INET - DRDO



Nothing is impossible the word itself says I'm possible

Director's Message

Reliable Academy is committed for providing the best qualified Faculties who are industry expert & full of devotion to guide and assist aspirants to achieve their goal of passing the desired competitive exams with flying colors.

“Student must be Guided on HOW to think.., NOT WHAT to think..”

In today's modern era, the competition in Govt. competitive exams like UPSC, MPSC, BANK/SSC is increasing day by day. Only those aspirants, who are well aware about the exam and have mastered the planned techniques & structured approach can achieve their goals easily. Through these competitive examinations, the intelligence and comprehensibility of the student is examined in all the desire aspects & how he/she can handle the complex situation in their future career is scrutinized.

Manohar E. Patil
Founder & Director

As the saying goes "Well Beginning is Half Done", it is very important to come over the initial hiccups and misconceptions at the right time. Understanding the exam pattern and appropriate learning method will help an aspirant to move in the right direction. Right learning, enough practice and unwavering dedication towards the preparation of competitive examination is MUST.

About Reliable Academy

Year of Establishment : 2014

Reliable Academy is the most popular institute in Maharashtra Specially in and around Delhi, Mumbai, Pune, Thane & Kalyan region. We are leading Training Institute for Various Govt. Competitive Exam Preparations Viz., UPSC, MPSC, Bank, SSC, Railway, Insurance and various other competitive exams from State level to National level in INDIA.

We aim to develop competitive attitude and winning spirit among our students. Providing sound academic base with quality teaching and individual attention from experienced faculties in structured pattern is our hallmark.

Today we are well established and leading institute which is continuously guiding the students to achieve their goals. Our Faculties have created comprehensive Study Material which facilitate students to study the well define Course Content in easy way to score good marks. Our renowned faculties are the best in class and have yielded great results. We have strong desire to provide the comprehensive education through experienced faculties and proper guidance to students in a skillful manner to ensure their success.

We focus on building a strong foundation of knowledge and core competence for students success. We provide an excellent Classroom teaching at our centers and also through online platform like mobile app, website and via our latest V-SAT E-Learning Program. The best academic support and personal attention which we provide to the students helps them to meet their career goals and objectives. Our highly qualified and most experienced faculties are dedicated and committed to student's overall progress and success. We help you with a complete structured program to prepare you for the competitive exams and pass out with the best rank compared to others.

Our Certifications



Vision - Mission

Mission

Our mission is to ensure all our students achieve their dreams of successfully clearing their desired competitive exams and secure Govt./Public Sector posting.

Vision

To help our students with an up-to-date structured program, experienced faculties practical approach & personal guidance to get selected at Central & State Govt./Public Sector in their first attempt itself.

Goal

To achieve maximum students passing every year among different competitive exams like UPSC, MPSC, Bank, SSC and various other Central & State Govt. Sectors

- ⇒ 1. Always study sitting on chair table, do not read at all while lying on the bed .if you lie on your bed while studying you may get into lazy mode, eventually making you feel sleepy.
- ⇒ 2. Do not play television while reading and also keep radio or songs off. In the course of studies, switch mobile phone off or keep it on silent mode.
- ⇒ 3. Do write the text what you read, this will also keep you concentrated on reading and also make notes for the future.
- ⇒ 4. Must read any text at least three times. Avoid the tendency to write whatever you read, note the important points. You should brainstorm (revise).
- ⇒ 5. Make short notes so that they work during the exam. Discuss the readings with your friends, group discussion is beneficial in studies.
- ⇒ 6. Sort the important topics based on the old question papers and prepare them well. Follow our Reliable Academy action plan.
- ⇒ 7. Eat a balanced diet because overeating leads to sleepiness and laziness, while eating less food does not make you mind sharper. It can lead to some problems like tiredness, headache etc.
- ⇒ 8. Read with the help of pictures, maps, graphs, sketches etc. They are easy to remember for a longer period.
- ⇒ 9. You can take help of computer or internet in studies, but with some specific time.

Note: Following & implementing the above rules will benefit study and help achieving success with in the time frame.

Founder: Manohar E. Patil

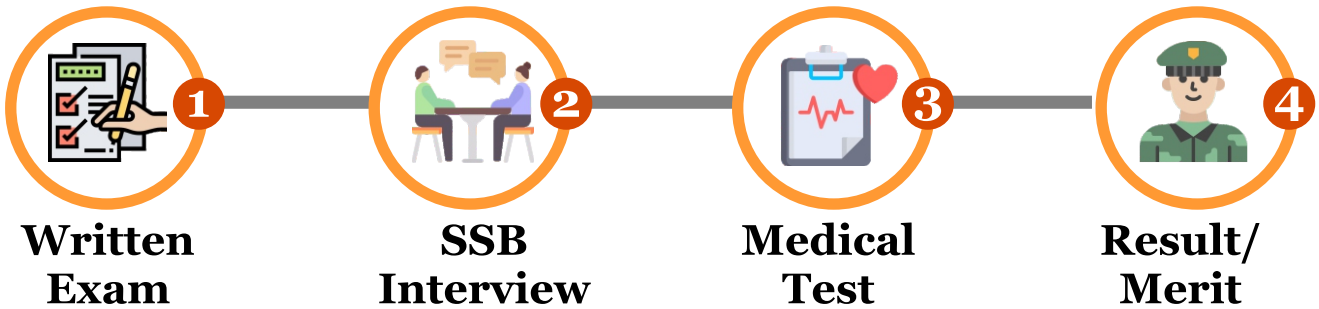


What is NDA ?

The National Defence Academy (NDA) is the joint defence service training institute of the Indian Armed Forces, where cadets of the three services i.e. the Indian Army, the Indian Navy and the Indian Air Force train together before they go on to respective service academy for further pre-commission training. The NDA is located in Khadakwasla, Pune, Maharashtra. It is the first tri-service academy in the world.



Selection Procedure



Eligibility

| | | |
|---------------------------------------|------------------------------------|---|
| Age Limit 16.5 - 19.5 Years | Martial Status Unmarried | Education Class 12 Passed / Appeared |
|---------------------------------------|------------------------------------|---|

Physical Standards

The candidates must be physically fit as per the physical standards for National Defence Academy and Naval Academy. They should be able to fulfill the following criteria:

| For Ground Duty | | |
|--|-------------|-------------|
| Height Requirement | Min. Height | Max. Height |
| Except states mentioned below | 157.5 cm | --- |
| Height for North Eastern regions of India and hilly regions of Uttarakhand | 152.5 cm | --- |
| Candidates from Lakshadweep | 155.5 cm | --- |
| For Flying Duty | | |
| Height Requirement | Min. Height | Max. Height |
| Sitting Height | 81.5 cm | 96 cm |
| Leg Length | 99 cm | 120 cm |
| Thigh Length | --- | 64 cm |

- (a) Running: 2.4 km in 15 min.
- (b) Skipping
- (c) Pushups & Sit-ups: Min. 20 each
- (d) Chin-ups: Min. 08
- (e) Rope Climbing: 3.4 mtrs



Exam Pattern

Written Exam

- NDA Exam is conducted in two sessions. There will be two papers in the NDA Exam – Mathematics and General Ability Test (GAT).
- The exam will be conducted in an offline mode
- The questions will be in Multiple Choice Questions
- The questions will be asked in bilingual languages (English & Hindi)
- There will be a negative marking of 0.83 marks for Maths, 1.33 for English, and 1.33 marks for GK

| Subject | Sections | Marks | Total Marks | Duration | |
|-----------------------------|----------------------------|---------------------------------|-------------|----------|-----|
| Maths | | | 300 | 2.5 Hrs | |
| General Ability Test | Part A – English | 200 | 600 | 2.5 Hrs | |
| | Part B – General Awareness | Physics | | | 100 |
| | | History, Freedom Movement, etc. | | | 80 |
| | | Geography | | | 80 |
| | | Chemistry | | | 60 |
| | | General Science | | | 40 |
| | | Current Events | | | 40 |
| Total | 600 | | | | |

SSB Interview

SSB Interview comprises two stages- Stage 1 (OIR and PPDT) and Stage 2- (Interview, Group Tasks, Psychology Test, and Conference). After stage 2 is completed, a final merit list is generated by the UPSC for the final recruited candidates. The SSB Interview is elaborated in detail below.

| Stages | Activities conducted |
|------------------------------------|--|
| Screening Test | <ul style="list-style-type: none"> • Verbal and Nonverbal test • Picture Perception & Description Test (PPDT) |
| Psychological Test | <ul style="list-style-type: none"> • Thematic Appreciation Test [TAT] • Word Association Test [WAT] • Situation Reaction Test [SRT] • Self-Description Test [SD] |
| Group Testing Officers Test | <ul style="list-style-type: none"> • Group Discussion (GD) • Group Planning Exercise (GPE) • Progressive Group Task (PGT) • Half Group Task (HGT) • Individual Obstacles Task (IOT) • Command Task • Snake race/Group Obstacle Race • Individual lecture • Final Group Task (FGT) |
| Personal Interview | |
| Conference | |

Syllabus

Mathematics

| Chapters | Topics |
|--|---|
| Analytical Geometry of Two & Three Dimensions | Rectangular Cartesian Coordinate system, Distance formula, Equation of a line in various forms, the angle between the two lines, The distance of a point from a line, Equation of a circle in standard and in a general form, Standard forms of parabola, ellipse, and hyperbola, Eccentricity and axis of a conic, A point in a three-dimensional space is the distance between two points, Direction Cosines and direction ratios, Equation two points. Direction Cosine and direction ratios, Equation of a plane and a line in various forms, The angle between two lines and the angle between two planes. Equation of a sphere. |
| Algebra | Concept of set, operations on sets, Venn diagrams, De Morgan laws, Cartesian product, relation, equivalence relation. Representation of real number line, Complex numbers, basic properties, modulus, argument, cube root of unity. Binary system of numbers, Conversion of a number in the decimal system to binary system and vice versa, Arithmetic, 19 Geometric and Harmonic progressions, Quadratic equations with real coefficients. The solution of linear inequalities of two variables by graphical method, Permutation and Combination, Binomial theorem and its applications. Logarithms and its applications. |
| Trigonometry | Angles and their measures in degrees and in radians, Trigonometric ratios, Trigonometric identities Sum and difference formulae. Multiple and multiple angles, Inverse trigonometric functions, Applications, Height and distance, properties of triangles. |
| Matrices & Determinants | Types of matrices, operations on matrices, The determinant of a matrix, basic properties of determinants, Adjoint and inverse of a square matrix, Applications, Solution of a system of linear equations in two or three unknowns by Cramer's rule and by Matrix Method. |

GAT

| Section | Topics |
|------------------------------------|---|
| English | <ul style="list-style-type: none"> Grammar and usage, vocabulary, Reading Comprehension, and cohesion in extended text to test the candidate's proficiency in English. |
| Physics (Section A) | <ul style="list-style-type: none"> Physical Properties and States of Matter, Mass, Weight, Volume, Density, and Specific Gravity, Principle of Archimedes, Pressure, Barometer. The motion of objects, Velocity and Acceleration, Newton's Laws of Motion, Force and Momentum, Parallelogram of Vectors, Stability and Equilibrium of bodies, Gravitation, elementary laws of work, Power and Energy. Effects of Heat, Measurement of Temperature and Heat, change of State and Latent Heat, Modes of transference of Heat. Sound waves and their properties, Simple musical instruments. Rectilinear propagation of light, Reflection, and refraction. Spherical mirrors and Lenses, Human Eye. Natural and Artificial Magnets, Properties of a Magnet, Earth as a Magnet. Static and Current Electricity, conductors and Non-conductors, Ohm's Law, Simple Electrical Circuits, Heating and Magnetic effects of Current, Measurement of Electrical Power, Primary and Secondary Cells, Uses of Cells. General Principles in the working of the following: Simple Pendulum, Simple Pulleys, Siphon, Levers, Balloon, Pumps, Hydrometer, Cooker, Thermos Flask, Gramophone, Telegraphs, Telephone, Periscope, Telescope, Microscope, Mariner's Compass; Lightning Conductor, Safety Fuses. |
| Chemistry (Section B) | <ul style="list-style-type: none"> Physical and Chemical changes. Elements, Mixtures and Compounds, Symbols, Formulae, simple Chemical Equations, Law of Conservation of Mass, Chemical Combination (excluding problems). Properties of Air and Water. Preparation and Properties of Hydrogen, Oxygen, Nitrogen and Carbon dioxide, Oxidation and Reduction. Acids, bases, and Salts. Carbon—different forms Fertilizers—Natural and Artificial. The material used in the preparation of substances like Soap, Glass, Ink, Paper, Cement, Paints, Safety Matches, and Gunpowder. Elementary ideas about the structure of Atoms, Atomic Equivalent and Molecular Weight, Atomicity, Valency. |
| General Science (Section C) | <ul style="list-style-type: none"> Difference between the living and non-living. Basis of Life—Cells, Protoplasm's, and Tissues. Growth and Reproduction in Plants and Animals. Elementary knowledge of the Human Body and its important organs. Common Epidemics; their causes, and prevention. Food—Source of Energy for man. Constituents of food, Balanced Diet. The Solar System—Meteors and Comets, Eclipses. Achievements of Eminent Scientists |

What is CDS ?

The "Combined Defence Services" (CDS) Examination is conducted twice a year by the Union Public Service Commission (UPSC) for the recruitment of candidates into the Indian Military Academy, Officers Training Academy, Indian Naval Academy and Indian Air Force Academy. The UPSC will conduct the CDS exam twice a year in the month of February and September. The selection of candidates is based on the written exam followed by SSB Interview for intelligence and personality test. Shortlisted candidates are placed at the following academies based on their preferences and merit.

| Academy | State/City |
|--|------------|
| Indian Military Academy | Dehradun |
| Indian Naval Academy | Ezhimala |
| Air Force Academy | Hyderabad |
| Officers' Training Academy (SSC Men) | Chennai |
| Officers' Training Academy (SSC Women) | Chennai |

NDA vs CDS

| Parameter | NDA | CDS |
|------------------------------|---|---|
| Age | 16.5-19.5 Years | 19-25 Years |
| Eligibility | Men and Women | Men are allowed to apply for IMA, INA, AFA and OTA Women are allowed to apply for OTA only |
| Educational Qualification | Class 12 | Graduation |
| Scheme of Examination | Written and SSB | Written and SSB |
| Frequency of the Exam | Twice a year | Twice a year |
| Duration of Training | Three years at NDA and one year in the respective service academies for INA and IMA. Air Force cadets undergo training at NDA for three and 1 & ½ years at AFA | <ul style="list-style-type: none"> • 18 months for IMA Cadets • 37-40 months for Navy Officers • 74 months for Air Force Officers |
| Training Centres | <ul style="list-style-type: none"> • National Defence Academy, Khadakwasla, Pune | <ul style="list-style-type: none"> • Indian Military Academy (IMA), Dehradun for Army Cadets • Indian Naval Academy, Ezhimala for Navy Cadets • Indian Air Force Academy, Hyderabad for Air Force Officers • Officers Training Academy (OTA), Chennai |
| Degrees awarded | <ul style="list-style-type: none"> • Army Cadets: BSc/BSc (Computer)/BA / BTech degree • Naval Cadets: BTech degree • Air Force Cadets: BTech degree | <ul style="list-style-type: none"> • Army Cadets in IMA: PG Diploma in 'Military and Défense Management • OTA Chennai: Post Graduate Diploma in Defence Management and Strategic Studies |
| Rank assigned after training | Lieutenant | Lieutenant |
| Stipend during training | INR 56,100 | INR 56,100 |
| Number of papers | Two | IMA, AFA and INA: Three OTA: Two |
| Name of the subjects | General Ability Test (GAT) and Mathematics | IMA, AFA and INA: English, General Knowledge and Elementary Mathematics OTA: English and General Knowledge |
| Exam duration | Each paper is for 2 ½ | Each paper is held for two hours |
| Number of questions | GAT: 150 / Mathematics: 120 | Maths: 100 / English: 120 / General Knowledge: 120 |
| Total marks | Written Exam: 900 SSB Interview: 900 | IMA, INA, and AFA: 300 OTA: 200 The SSB Interview for IMA, INA, AFA is for 300 marks each while for OTA, it is 200 |
| Negative marks | GAT: 1.33 / Maths: 0.83 | 0.33 |
| Nature of syllabus | The standard of NDA syllabus is of Classes 10, 11 and 12 levels | The standard of the topics in CDS syllabus for Elementary Mathematics will be of Class 10 level. The standard of papers for other subjects will be of Graduation level |

Eligibility

Age Limit /

The commission has set a fixed age limit criterion for all the posts, and aspirants must fall between the prescribed criterion, or else their candidature can be canceled at any stage of the selection process. The CDS age limit for all the posts is **20 years to 24 years**

Educational Qualification /

| Academies | CDS Educational Qualification |
|--|--|
| Indian Military Academy (IMA) and Officers' Training Academy (OTA) | Graduation from a recognized university |
| Indian Naval Academy (INA) | An engineering degree from a recognized university/institute |
| Air Force Academy (AFA) | Bachelor of Engineering or Graduation |

Physical Standards /

- ⇒ Candidates must be physically and mentally fit according to prescribed physical standards for admission to CDS (I) & CDS (II)
- ⇒ The minimum acceptable height for male candidates is 157.5 cms. (157 cms for Navy and 162.5 cms for Air Force) and that for female candidates is 152 cms.
- ⇒ For Gorkhas and individuals belonging to hills of the North-Eastern region of India, the minimum acceptable height will be 5 cms less. In the case of candidates from Lakshadweep, the minimum acceptable height can be reduced by 2 cms.
- ⇒ Body Mass Index should be below 25.
- ⇒ The Waist Hip ratio should be below 0.9 for males and 0.8 for females.
- ⇒ Waist Circumference should be less than 90 cm for males and 80 cm for females.
- ⇒ All biochemical metabolic parameters should be within normal limits.
- ⇒ Permanent body tattoos are only permitted on inner face of the forearm, i.e. from inside of elbow to the wrist and on the reverse side of palm/back (dorsal) side of the hand.

Exam Pattern

Written Exam /

The written test for IMA, INA, and AFA consists of 3 sections – English, General Knowledge, and Elementary Mathematics. Whereas the written paper for OTA consists of 2 sections – English and General Knowledge. The structure of the question paper is shown in the below-

- There will be Multiple-Choice Questions in each paper
- The question paper for General Knowledge and Mathematics will be set in Hindi as well as English
- There will be a penalty of 1/3 marks for a wrong answer
- Duration of each exam is separate i.e. 2 hours.

Exam Pattern

• CDS Exam Pattern for IMA, INA, and AFB

| Subjects | Marks | Duration |
|------------------------|-------|----------|
| English | 100 | 2 hours |
| General Knowledge | 100 | 2 hours |
| Elementary Mathematics | 100 | 2 hours |

• CDS Exam Pattern for OTA

| Subject | Marks | Duration |
|-------------------|-------|----------|
| English | 100 | 2 Hours |
| General Knowledge | 100 | 2 Hours |

SSB Interview

The selection of the candidates is on the basis of marks scored in the interviews. Total marks for the interview for Indian Military Academy, Naval Academy, and Air Force Academy is 300 marks, whereas 200 marks are allotted for interview of OTA.

SSB Interview will contain two stages i.e. Stage 1 and Stage 2. Candidates who qualify the stage 1 exam will be called for stage 2.

Stage 1: It is an OIR (Officer Intelligence Rating) Test which contains Picture Perception and Description Test (PP & DT). Candidates will be shortlisted as per their performance in the OIR Test and PP and DT.

Stage 2: Candidates passing stage 1 will be called for this stage. This part consists of Group Testing Officer Tasks, Interview, Conference, and Psychology Test. These tests are organized in four days.

Syllabus

Candidates should be aware of the subjects of the CDS Exam Syllabus and important topics. Candidates are required to check the entire syllabus of CDS 2023 for its thorough preparation.

General Knowledge: History, Physics, Biology, Geography, Political Science, and current affairs of the last 4-5 months from the examination date.

English: Basic Grammar, Synonyms, Antonyms, Comprehension Solving, Error Spotting, Para Jumbles, etc.

Elementary Math: Natural numbers, Integers, Percentages, HCF and LCM, Geometry, Logarithms, Trigonometry, Time & distance, Statistics, Mensuration, etc.

About Exam

CAPF AC Exam is held for recruitment in Police Forces such as Border Security Force (BSF), Central Reserve Police Force (CRPF), Indo-Tibetan Border Police (ITBP), Central Industrial Security Force (CISF), Sashastra Seema Bal (SSB), National Security Guard (NSG), and Assam Rifles(AR). The candidates have to clear the written examination, Physical Examination followed by an Interview or personality test to get inducted into the training Academies of these Police Forces.

After the training period, the candidates will become officers and hold the rank of Assistant Commandants (ACs) and will be posted in different battalions



Eligibility

Age Limit

General

20 yrs to 25 yrs

OBC

20 yrs to 28 yrs

SC / ST

20 yrs to 30 yrs

Physical Standards

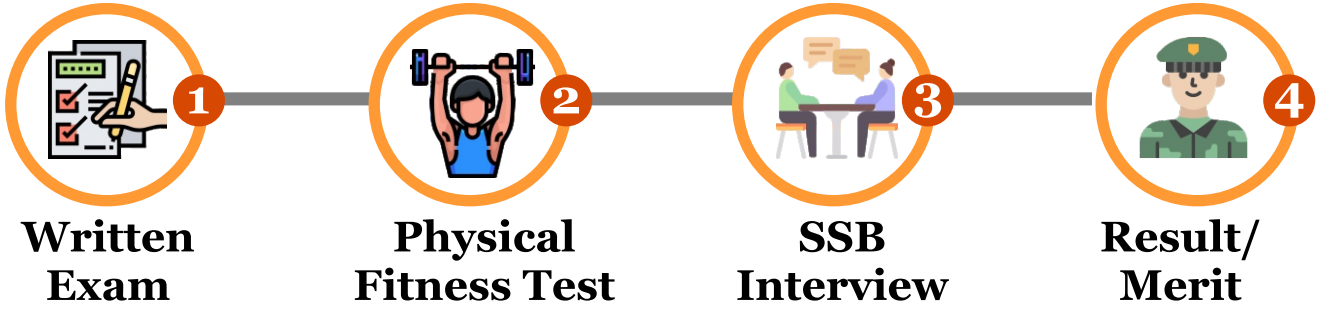
| Physical Standards | Men | Women |
|--------------------------|-------------------------------------|------------------|
| Height | 165 cm | 157 cm |
| Chest(unexpanded) | 81 cm (with 5 cm minimum expansion) | (Not applicable) |
| Weight | 50 kg | 46 kg |

Educational Qualification

As given in the official CAPF notification, "the candidate must hold a Bachelor's Degree from any recognised university". The candidates who are in the final year of their degree course can also apply for the exam but they have to produce the final year mark sheet of the qualifying exam with the detailed application form.

Possession of NCC 'B' or 'C' Certificates: Candidates in the possession of NCC 'B' or 'C' certificate will be given preference at the time of Interview. It should be noted that these qualifications will be given consideration only at the time of the Interview/Personality Test.

Exam Pattern



Written Exam

- CAPF AC written exam is the first round in the CAPF AC Selection Process.
- The written examination comprises 2 papers- Paper 1 and Paper 2.
- Paper 1 will consist of multiple-choice questions on general ability and intelligence having four alternatives.
- Paper 2 is of descriptive type and questions are on General Studies, Essay and Comprehension.
- Paper 1 is an objective type & consists of 125 questions.
- 2 Marks will be awarded for every correct answer.
- Also, 1/3rd of marks allotted to the question (i.e. 0.667) will be deducted for every wrong answer.
- However, Paper-II is of only a qualifying nature but will only be evaluated after the clearance of Paper I cut-off.

| Exam | Type | Subject | Questions | Marks | Time |
|---------|-------------|--|-----------|-----------|---------|
| Paper 1 | Objective | General Ability & Intelligence | 125 | 250 Marks | 120 Min |
| Paper 2 | Descriptive | General Studies, Essay & Comprehension | 6 | 200 Marks | 180 Min |

Physically Efficiency Test

The Physical Efficiency and Medical Standard test are qualifying in nature. The candidates are required to meet the physical and medical standard prescribed in the CAPF notification. After passing this first phase or the written exam, the candidates need to undergo the Physical Efficiency and Medical Standard Test.

Physical Efficiency Tests (PET)

| Event | Males | Females |
|----------------------------|-------------------------|-------------------------|
| 100 Meters race | In 16 Seconds | In 18 seconds |
| 800 Meters race | In 3 minutes 45 seconds | In 4 minutes 45 seconds |
| Long Jump | 3.5 Meters (3 chances) | 3.0 meters (3 chances) |
| Shot Put (7.26 Kgs) | 4.5 Meters | - |

Exam Pattern

Interview / Personality Test /

Candidates who are declared qualified in the Medical Standards tests, will be called for Interview/Personality Test to be conducted by UPSC.

Candidates who are declared medically unfit but allowed to appear before the "Review Medical Board" on their appeal by the Appellate Authority will be called for Interview/Personality Test Provisionally. The Interview/Personality Test will carry 150 Marks.

Candidates who are short listed for interview/personality test, will be issued a detailed application form (DAF) in which among other things, they will be required to indicate their preferences of forces.

Final Selection / Merit /

The merit list will be drawn on the basis of marks obtained by the candidates in the Written Examination and Interview/Personality Test.

Syllabus

| Subjects | Topics |
|---|---|
| General Ability | Analogies, Arrangements, Problem Solving, Syllogisms, Spatial Orientation, Space Visualization, Analysis, Ranking, Arithmetical Reasoning, Decision Making, Visual Memory, Arithmetic Number Series, Figural Classification, Coding and Decoding, Relationship Concepts, Statement Conclusion, etc. |
| Intelligence | General Mental Ability, General Science, Current Events of National and International Importance, Indian Polity and Economy, History of India, Indian and World Geography |
| English Language and Comprehension and Essay | Essay Writing, Comprehension, Precis Writing, Counter Argument, Communications, Report Writing, Language Skills, Grammar, Vocabulary, etc. |
| General Studies | History India, Current Events- National and International, Indian National Movement, Geography India, About India, Eminent Personalities, Cultural Heritage, Environment, Economy, General Polity, General Science, Indian Constitution, Science and Technology etc. |



About Exam

The Air Force common admission test (AFCAT) is a defence exam conducted by the Indian Air force for the selection of Class-1 Gazetted Officers in Flying and Ground Duties (Technical and Non-Technical). The AFCAT exam is held twice a year, in February and August/September. Its applications are available in June and December. The Indian Air Force holds the AFCAT exam to recruit qualified candidates for:

- Short Service Commission
- Permanent Commission

* Except for NDA and CDS candidates, all other recruitment in the Indian Air Force is done through the AFCAT exam.



Eligibility

Age Limit

| Branch Name | Age Limit |
|---|---|
| Ground Duty (Non-Technical and Technical) Branch | 20 - 26 years for the Unreserved category. |
| Flying Branch | <ul style="list-style-type: none"> • Candidates having a Commercial Pilot License is relaxed up to 26 years as its upper age limit. • Candidates should be between 20 and 24 years. |

Educational Qualification

| Branch | Sub-Branch | Educational Qualification |
|---|--|---|
| Ground Duty Technical Branch | Aeronautical Engineer (Mechanical) | Minimum 50% marks each in physics and mathematics at 10+2 level and a four year degree in graduation/integrated or post-graduation in the field of engineering and technology from a recognized university. |
| | Aeronautical Engineer (Electronics) | Minimum 50% marks each in physics and mathematics at 10+2 level and a degree in graduation/post-graduation in the field of engineering and technology from a recognized university. |
| Ground Duty (Non-Technical) branches | Administration | Graduate degree with a minimum of 60% marks with a three-year degree course from a recognized university OR should have cleared section A & B examination with a minimum of 60% |



Eligibility

Physical Standards /

AFCAT Physical Eligibility for Flying Branch

| Parameters | Min. (in cms) | Max (in cms) |
|-------------------|---------------|--------------|
| Acceptable Height | 162.5 | -- |
| Leg Length | 99 | 120 |
| Thigh Length | -- | 64 |
| Sitting Height | 81.5 | 96 |

FCAT Eligibility For Ground Duty (Tech and Non -tech)

| Parameters | Min. (in cms) |
|-------------------------------|---------------|
| Acceptable Height for Males | 157.5 |
| Acceptable Height for Females | 152 |

Exam Pattern

Written Exam /

The first stage in the AFCAT selection process is the written exam, in which candidates will have to answer questions for subjects including English, General Awareness, Numerical Ability, and Reasoning & Military Aptitude. Candidates who are appearing for the technical branch of the IAF will also have to sit for an additional Engineering Knowledge Test (EKT).

- For every correct answer, the candidate will be awarded three marks.
- For every incorrect answer, one mark will be deducted.
- For every unattempted answer, no mark will be awarded.

AFCAT Written Exam

| Section | Questions | Marks | Time |
|--------------------------------------|-----------|-------|---------|
| General Awareness | 20 | 60 | 2 hours |
| Verbal Ability in English | 30 | 90 | |
| Numerical Ability | 15 | 45 | |
| Reasoning and Military Aptitude Test | 35 | 105 | |

EKT Exam Pattern

| Section | Questions | Marks | Time |
|-------------------------|-----------|-------|--------|
| Fundamental Engineering | 10 | 30 | 45 min |
| Specialization Topics | 25 | 75 | |
| Allied Engineering | 15 | 60 | |



Exam Pattern

AFSB Interview /

| Stage | Selection Process |
|-------------------------------------|---|
| Stage I Testing | <p>STAGE-I In this first stage, where the candidates are usually called for a Screening test. On this day you will undergo the test which will test your mental fitness. The following are the tests conducted on the first day of the SSB stage.</p> <p>⇒ Officers Intelligence Rating Test</p> <p>⇒ Picture Perception Description Test</p> <p>⇒ Discussion test</p> |
| Stage II Testing | <p>Once the candidates qualify the stage I, he/she is eligible to appear for STAGE -II which would take 3-4 days. These days you will undergo the following tests which are conducted to test your overall mental fitness and personality required for the above posts.</p> <p>⇒ Psychological Tests</p> <p>⇒ Group Tasks (which included Interactive indoor and outdoor activities).</p> <p>⇒ Personal Interview</p> |
| Stage- III for Flying Branch | <p>A computerized Pilot Selection System (CPSS) would be administered only for the recommended candidates.</p> |

Syllabus

| English | General Awareness | Numerical Ability | Reasoning Aptitude Test |
|---------------------|-------------------|----------------------|-------------------------|
| Comprehension | History | Decimal fraction | Verbal Skill |
| Error Detection | Geography | Time and Work | Spatial Ability |
| Sentence Completion | Civics | Average | – |
| Synonyms | Politics | Profit and Loss | – |
| Antonyms | Current Affairs | Percentage | – |
| Testing of word | Environment | Ratio and Proportion | – |
| Vocabulary | Basic Science | Simple Interest | – |
| Idioms and Phrases | Defense | Time and Distance | – |
| – | Art Culture | – | – |
| – | Sports | – | – |

About Exam

Indian Navy conducts the Indian Navy Entrance Test (INET) for recruiting officers at Permanent Commission and Short Service Commission. All graduates are eligible for appearing in the entrance exam. Both male and female candidates can apply for the exam. The article here will provide details on eligibility conditions, exam pattern, syllabus, and other important details for the INET exam. The exam is conducted twice a year for the following posts

- Pilot MR (men and women)
- Pilot NMR (men only)
- Observer (men and women)
- Air Traffic Control (ATC) (men and women)
- Hydro (men only)
- General Service Executive (GS/X)
- General Service (Technical – Electrical & Engineering)
- Information Technology (men only)
- Naval Architect (men and women)
- Education (men and women)
- Logistics (men and women)
- Naval Armament Inspectorate Cadre (NAIC) (men and women)

Eligibility

| Eligibility Criteria for Executive Branch | | |
|--|---|--------------|
| Post | Educational Qualification | Age Limit |
| SSC Armament Inspectorate Cadre, NAI (Male/Female) | A minimum of 60% in SSC, HSC, and B E/B Tech | 19 to 24 yrs |
| SSC Logistics (Male/Female) | B E/B Tech in any field or an MBA, MCA, MSc, | 19 to 24 yrs |
| SSC X IT (Male/Female) | 60% in B Sc (IT), MCA, M Sc (IT), and B Tech (Computer/IT) | 19 to 24 yrs |
| SSC General Service Hydro Cadre (Male) | A minimum of 60% in BE/BTech in any specialisation | 19 to 24 yrs |
| SSC ATC (Male/Female) | Possess a 60% engineering degree from any stream | 20 to 24 yrs |
| SSC Observer (Male/Female) | | 18 to 23 yrs |
| SSC Pilot (MR) (Male/Female) | | |
| Eligibility Criteria for Technical Branch | | |
| Post | Educational Qualification | Age Limit |
| SSC Engg. Branch General Service (Male) | BE/BTech in Mechanical/ Marine/ Instrumentation/ Production/ Aeronautical | 19 to 24 yrs |
| SSC Electrical General Service (Male) | BE/BTech in Electronics/ Electrical/ Power with minimum 60% | 19 to 24 yrs |
| Eligibility Criteria for Education Branch | | |
| Post | Educational Qualification | Age Limit |
| Education (Male/Female) | A minimum 60% in an MSc, MA, BE, or BTech. | 20 to 24 yrs |

Exam Pattern

The INET exam has four sections: English, Reasoning & Numerical Ability, General Science, Mathematical Aptitude, and General Knowledge.

- Candidates must receive at least 40% in each of the four sections to pass.
- The duration of the INET exam is two hours.
- Each correct answer awards 4 marks while for each incorrect answer, 1 mark will be deducted

Exam Pattern

Written Exam

| Section | Questions | Marks | Time | Cut Off |
|---|-----------|-------|---------|---------|
| English | 25 | 100 | 2 hours | 40% |
| Reasoning and Numerical Ability | 25 | 100 | | 40% |
| General Science and Mathematical Aptitude | 25 | 100 | | 40% |
| General Knowledge | 25 | 100 | | 40% |

SSB Interview

Candidates who qualify for the INET exam are called for the SSB Interview. The venue for the SSB interview is decided by the selection board only. Candidates are informed about the SSB interview through SMS or e-mail. Thus, candidates are advised not to change their email ID and mobile number till the selection process is complete. The SSB interview comprises of two stages:

Stage I - Picture Perception, Intelligence Test, and Discussion Test

Stage II - Group Tests, Psychological Testing, and Interview

The final merit list is prepared on the basis of INET (50% weightage) and SSB interview (50% weightage). Qualified candidates are required to appear for the medical examination.

Syllabus

| Subject | Syllabus |
|--|---|
| English | Comprehension, Sentence completion / Corrections, Grammar, Vocabulary, Antonyms and Synonyms, Parts of Speech, Direct and Indirect Speech, Idioms and Phrases, etc. |
| Reasoning and Numerical Ability | Reasoning Spatial, Numerical, Sequences, Spellings, Unscrambled Coding and Decoding, Missing Numbers / Series Completion, Reasoning, and Associative Ability Numerical Ability Ratios and Proportion, Average and Volume, Time and Work, Speed and Distance, Marked Price, Cash Price, Expenditure Problems, Simple Interest, Compound Interest, etc. |
| General Science and Mathematical Aptitude | General Science Nature of Matter, Universe, Electricity and its Applications, Force and Gravitation, Newton's Laws of Motion, Work, Energy and Power, Heat, Temperature, Atomic Structure, Carbon and its Compounds, Periodic Table, etc. Mathematical Aptitude Number Systems, Algebra, Basic Trigonometry, Arithmetic Ability, Geometry, Statistics, Probability and Set Theory. |
| General Knowledge | History of India, Geography, Environment, Civics Constitution of India, Art, Culture, Dance, Heritage, Religion, Freedom Movement, Books and Authors, Awards, Capitals, Currencies, Common Names, Forms, Eminent Personalities, National Bird/ Animal/ Monuments/ Flower/ Anthem/ Sport/ Flag/ Emblem, Discoveries and Current Affairs. |

About Exam

The DRDO CEPTAM exam is held online to recruit vacancies for Technician-A and Senior Technical Assistant-B posts in the organisation. There are two stages of the selection process and those are Tier-I and Tier-II. CEPTAM is entrusted with the Recruitment of Technical, Administrative & Allied categories of non-gazetted personnel, Assessment of DRTC Officers & Staff, and facilitates Training for the development of these cadres as per the Training Policy of DRDO.

Eligibility

Age Limit

The candidates willing to apply for the post of DRDO Technician A should be between the age of 18 to 28 years to be eligible. The upper age limit has been relaxed for candidates belonging to different categories.

Educational Qualification

| Posts | Education Qualification |
|---|--|
| Senior Technical Assistant-B (STA-B) | Bachelor's degree in Science or Diploma in Engineering or Technology or Computer Science or Allied subjects, in the following discipline: Automobile, Chemical, Civil, Computer Science, Electrical & Electronics, Electrical, Electronics & Instrumentation, Electronics or Electronics & Comm. Or Electronics Telecomm., Instrumentation, Mechanical, Metallurgy Engg., Agriculture, Botany, Chemistry, Library Science, Mathematics, MLT, Photography, Physics, Printing Technology, Psychology, Textile, Zoology. |
| Technician-A (Tech-A) | 10th Class pass or equivalent from a recognised Board or Institute; and (ii) Certificate from a recognised ITI or Certificate of minimum one year duration from recognised Institution if the ITI do not award Certificate or NC or NAC in the required discipline in the following Trade: Automobile, Book Binder, Carpenter, CN Operator, COPA, Draughtsman (Mechanical), DTP Operator, Electrician, Electronic Fitter, Grinder, Machinist, Mechanic (Diesel), Mill Wright Mechanic, Motor Mechanic Painter, Photographer, Refrigeration & AC, Sheet Metal Worker, Turner, Welder. |

Exam Pattern

The selection process for Senior Technical Assistant-B (STA-B) and Technician-A (Tech-A) has been mentioned in the notification by DRDO CEPTAM.

| Posts | Selection Process |
|---------------------------------------|---|
| Senior Technical Assistant -B (STA-B) | CBT 1 (Screening Test) & CBT 2 (Selection Test) |
| Technician -A (Tech -A) | CBT 1 (Selection Test) & Trade Test/Skill Test |

Exam Pattern

Exam Pattern for Senior Technical Assistant B

| Tier | Mode of Exam | Section Name | No. of Qs | Max Marks | Time |
|---------|---------------------------|---|-----------|-----------|------------|
| Tier-I | CBT 1 (Screening Test) | Test Common to all PostCodes: Quantitative Ability/Aptitude General Intelligence & Reasoning Ability General Awareness English Language (Basic Knowledge) General Science | 120 | 120 | 90 minutes |
| Tier-II | CBT 2 (Selection Test) | Test Specific to Posts | 100 | 100 | 90 minutes |

Exam Pattern for Technician A

| Tier | Mode of Exam | Section Name | Ques. | Marks | Time |
|---------|-------------------------------------|---|--|-------|--------|
| Tier-I | CBT for Provisional Selection | SectionA: 1. Quantitative ability/apptitude 2. General intelligence & Reasoning ability 3. General Awareness 4. English language (basic knowledge) SectionB: Specific to trade/discipline of post | 40 (Section A) + 80 (SectionB) | 120 | 90 min |
| Tier-II | Trade Test (Qualifying) | Specific to trade/discipline of post | The Trade test may be of about one to two hours duration | | |

Syllabus

| Subject Name | Syllabus Topics Wise |
|-----------------------------|---|
| English | Synonyms, Antonyms, Verb, Tenses, Subject-Verb Agreement, Grammar, Comprehension, Vocabulary, Adverb, Unseen passages, Error Correction, Articles, Fill in the Blanks, Sentence Rearrangement, Idioms & Phrases |
| General Awareness | Current Affairs (National and International), Major Financial / Economic News, Budget and Five-Year Plans, Sports, Books and Authors, Awards and Honours, Science – Inventions and Discoveries, Abbreviations, Important Days, International and National Organizations are some related topics |
| General Intelligence | Blood Relations, Analogy, Directions, Clocks & Calendars, Coding-Decoding, Number Series, Alphabet Series, Arithmetical Reasoning, Non-Verbal Series, Number Rankings, Decision Making, Embedded Figures, Cubes and Dice, Mirror Images etc |
| Mathematics | Time and Work, Time and Distance, HCF & LCM, Percentages, Profit and Loss, Ratio and Proportions, Simple & Compound Interest, Mixtures & Allegations, Problems on Ages, Number System, Simplification, Data Interpretation, Decimal & Fractions, Average etc |

Our Activities



Test Series with proper Explanation



Regular students - achiever interaction



Discussion On Social Welfare to become good bureaucrat



Special Camp Organized for Personality Development.



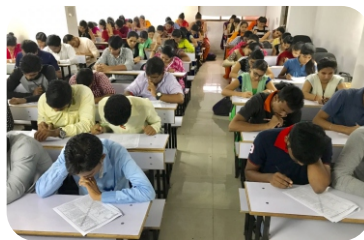
Meditation and Mind Mapping sessions for goal concentration



Special Mock Interview Sessions and guidance from bureaucrat and Team Reliable



Special Ground Practice For Physical Fitness



Development of problem analysis and solving approach for all Banking Exams



We Organise Test Series at all Maharashtra State Level



Personal Mentor/Tutor for Doubt Solving, Progress Tracking, Test Discussion



100% Personal attention guarantee. Fix Batch Schedule & Strength of 50 Students.



Special focus on Language and Optional Subjects

Our Features



Daily 2 Hrs Conceptual Lecture and 1 Hr Fast track Revision & Competition



Topicwise and Subjectwise Test Series to command each and every topic for exam



To-The-Point Current, Core and Conceptual Lectures



Provide Qualitative Updated Handouts and Exam Oriented Notes Material



Focus on Conceptual building lectures



Conceptual class complete syllabus of Banking Pre, Mains and Interview



Special Focus on Mind Development Test



Progress report of Individual Student



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