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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

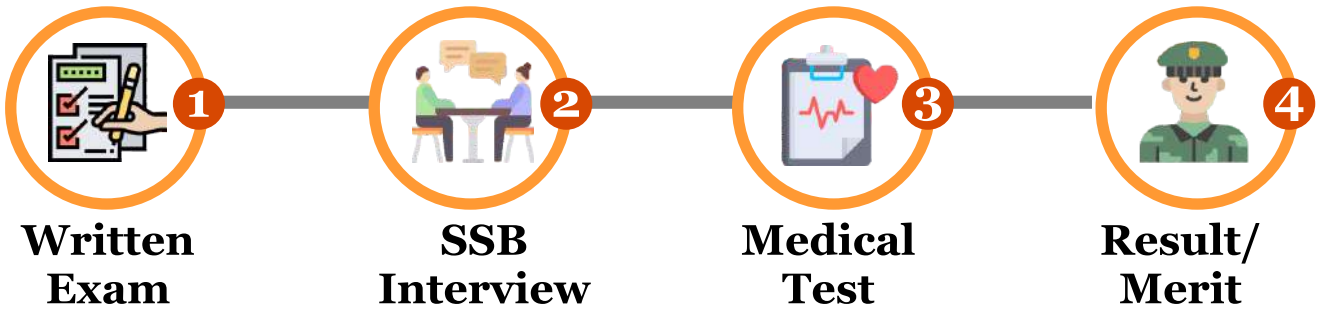


What is NDA ?

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
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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, and Chemical Formulae.
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

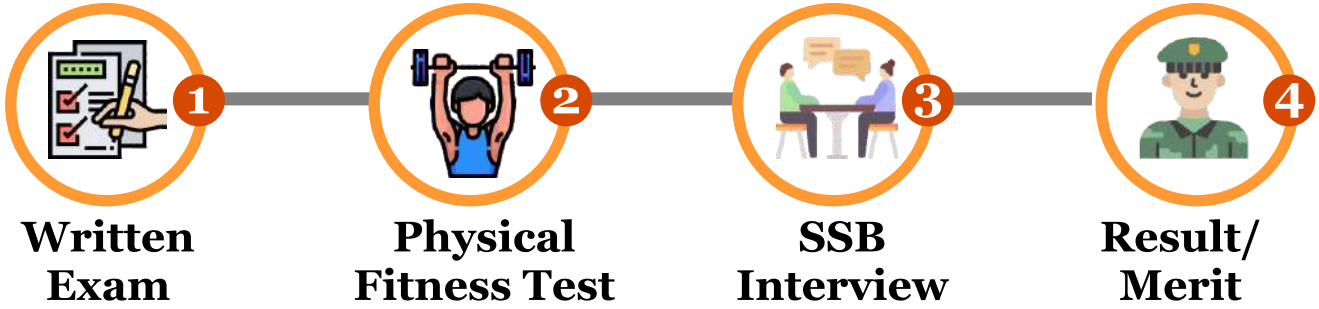
Physical Standards	Men	Women
Height	165 cm	157 cm
Chest(unexpanded)	81 cm (with 5 cm minimum expansion)	(Not applicable)
Weight	50 kg	46 kg

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 ⇒ Picture Perception Description Test ⇒ 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 ⇒ Group Tasks (which included Interactive indoor and outdoor activities). ⇒ 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	Section A: 1. Quantitative ability/apptitude 2. General intelligence & Reasoning ability 3. General Awareness 4. English language (basic knowledge) Section B: Specific to trade/discipline of post	40 (Section A) + 80 (Section B)	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



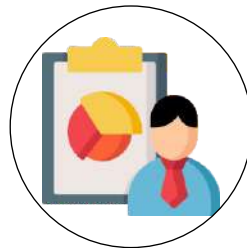
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