

*Success is born of action...*



**PIONEER ACADEMY™**

*For Competitive Examinations*

**UPSC**  
**CDS**

**INFORMATION BOOKLET**

**PUNE ACADEMY :**

204/5, 304/5, 2<sup>nd</sup> & 3<sup>rd</sup> Flr., Pinnacle Prestige, Above Cosmos Bank, Opp. Maharashtra Electronics, Tilak Road, Sadashiv Peth, Pune - 411 030  
**Mob.: 9145339324 / 9145339325**

**THANE ACADEMY :**

201/202/203/204, 2<sup>nd</sup> Flr., Laizer Arcade, Raghoba Shankar Road, Chendani, Thane(W) - 400 601.  
**Mob.: 8850837306 / 8928166732**

**ANDHERI ACADEMY :**

3<sup>rd</sup> Flr., Syndicate Chember, Above Vaibhav Restaurant, Next To Better Home Hotel, Opp. Andheri (E) station, Andheri(E) - 400 601.  
**Mob.: 9367041646 / 9324773854**

**DADAR ACADEMY :**

306/7/8, 3<sup>rd</sup> Flr., Blue Pearl Society, Senapati Bapat Road, Plot No. 14, Near Janata Cloth Market, Near Dadar Railway Station, Dadar (W), Mumbai - 400 028  
**Mob.: 7715013830 / 9324169627**

**KALYAN ACADEMY :**

2<sup>nd</sup> Flr., Suyash Plaza, Opp. Railway Station, Near Deepak Hotel, Kalyan (W) - 421 301  
**Mob.: 8591470467 / 8169140960**

**PIMPRI-CHINCHWAD ACADEMY :**

45, 3<sup>rd</sup> Flr., Kunal Plaza, Mumbai Pune Road, Chinchwad Station Road, Pimpri-Chinchwad - 411 019  
**Mob.: 9975459324 / 9503459325**

**NERUL ACADEMY :**

16, 20 & 21, 1<sup>st</sup> Flr., Om Surya complex, Opp. Nerul Railway station, Beside Abhudaya Bank, Sector 15, Nerul (E), Navi Mumbai - 400 707  
**Mob.: 9321287241 / 9321289027**

**BORIVALI ACADEMY :**

313/314, 3<sup>rd</sup> Flr., V Star Plaza, Chandavarkar Rd., Near Saraswat Bank, Sundar Nagar, Borivali (W), Mumbai - 400 092  
**Mob.: 9653304874 / 9321249713**

**SATARA ACADEMY :**

Digvijay Building, 2<sup>nd</sup> Floor, Opp. S.T. Stand, Market Yard, Plot No. 13, Satara - 415 001  
**Mob.: 74474 69324 / 25**

**ONLINE :**

301, Shivkrupa Commercial Complex, Thane - 400 602  
**Mob.: 91375 41508**

**Email :** [pioneeracademypace@gmail.com](mailto:pioneeracademypace@gmail.com) | **Website :** [www.pioneeracademypace.com](http://www.pioneeracademypace.com)

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## AGE CRITERIA

- **For IMA:** 19 years to 24 years.
- **For Naval Academy:** 19 years to 24 years.
- **For Air Force Academy:** 19 years to 23 years.
- **For Officers Training Academy:** (SSC Course for Men) and (SSC Women Non-Technical Course) 19 years to 25 years.

**Note:** (UPSC will declare age range for particular examination in respective notification.)

## QUALIFICATION REQUIRED

- For IMA and Officers Training Academy (OTA)**-Degree of a recognised University or equivalent.
- For Indian Naval Academy (INA)**-Degree in Engineering from a recognised University/Institution.
- For Air Force Academy (AFA)**-Degree of a recognised University (with Physics and Mathematics at 10+2 level) or Bachelor of Engineering.

## TIMETABLE OF EXAMINATION

Month of exam	Notification of exam
April	December
September	May

**Note:** The dates of notification is liable to change.

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## **STAGE-I : OBJECTIVE EXAMINATION-SYLLABUS**

### **PAPER- I-ENGLISH (Maximum Marks-100)**

The question paper will be designed to test the candidates' understanding of English and workmanlike use of words. The syllabus covers various aspects like : Grammar and usage, vocabulary, comprehension and cohesion in extended text to test the candidate's proficiency in English.

<b>Topic (English)</b>	<b>Number of previous year questions in CDS</b>
Reading Comprehension	23
Sentence Improvement	20
Spot the Error	20
Cloze Test	20
Para-Jumble	10
Synonyms	8
Antonyms	7
Sentence-Jumble	7
One Word Substitution	5

\*Values given in Table are based on analysis, may actually differ in examination.

### **PAPER-II-GENERAL KNOWLEDGE (Maximum Marks-100)**

General Knowledge including knowledge of current events and of such matters of everyday observation and experience in their scientific aspects as may be expected of an educated person who has not made a special study of any scientific subject. The paper will also include questions on History of India and Geography of a nature which candidate should be able to answer without special study.

<b>Topic (General Knowledge)</b>	<b>Number of previous year questions in CDS</b>
History	19
Science	27
Geography	22
Environment	06
Polity	20
Economy	11
Defence ,Miscellaneous	15

\*Values given in Table are based on analysis, may actually differ in examination.

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Topic (Elementary Mathematics)	Number of previous year questions in CDS
Mensuration	14
Algebra	7
Mean-Median-Mode	4
Time speed and Distance	6
Number System	20
Simple /Compound interest	5
Percentage	2
Profit/Loss	1
Mixture	1
Time and Work	3
Trigonometry	14
Set Theory	1
Clock	2
Geometry	20

\*Values given in Table are based on analysis, may actually differ in examination.

## **STAGE-II : INTELLIGENCE AND PERSONALITY TEST (SSB)**

(a) Stage I : comprises of Officer Intelligence Rating (OIR) tests are Picture Perception Description Test (PP&DT). The candidates will be shortlisted based on combination of performance in OIR Test and PP&DT.

(b) Stage II : Comprises of Interview, Group Testing Officer Tasks, Psychology Tests and the Conference. These tests are conducted over 4 days. The details of these tests are given on the website [joinindianarmy.nic.in](http://joinindianarmy.nic.in).

The personality of a candidate is assessed by three different assessors viz. The Interviewing Officer (IO), Group Testing Officer (GTO) and the Psychologist. There are no separate weightage for each test. The marks are allotted by assessors only after taking into consideration the performance of the candidate holistically in all the test. In addition, marks for Conference are also allotted based on the initial performance of the Candidate in the three techniques and decision of the Board. All these have equal weightage.

The various tests of IO, GTO and Psych are designed to bring out the presence/absence of Officer Like Qualities and their trainability in a candidate. Accordingly candidates are Recommended or Not Recommended at the SSB.

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## EXAM PATTERN

**STAGE I:** Multiple choice type objective exam

A) For admission in Indian Military Academy, Indian Navy Academy and Air Force Academy

Paper	Subjects	Questions	Total marks	Marks for every question	Negative marking	Duration
I	English	120	100	0.833	1/3	2 Hours
II	General Knowledge	120	100	0.833	1/3	2 Hours
III	Elementary Mathematics	100	100	1	1/3	2 Hours
<b>Total</b>		340	300			

B) For Admission in Officers Training Academy

Paper	Subjects	Questions	Total marks	Marks for every question	Negative marking	Duration
I	English	120	100	0.833	1/3	2 Hours
II	General Knowledge	120	100	0.833	1/3	2 Hours
<b>Total</b>		240	200			

**STAGE II:SSB**

(A)For Admission to Indian Military Academy, Indian Naval Academy and Air Force Academy:

Marks Allocated = 300

Total (Written + SSB) = 600

(B)For Admission to Officers Training Academy :

Marks Allocated = 200

Total (Written + SSB) = 400

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## **PAPER-III-ELEMENTARY MATHEMATICS (Maximum Marks-100)**

### 1. ARITHMETIC

Number System-Natural numbers, Integers, Rational and Real numbers. Fundamental operations, addition, subtraction, multiplication, division, Square roots, Decimal fractions. Unitary method, time and distance, time and work, percentages, applications to simple and compound interest, profit and loss, ratio and proportion, variation. Elementary Number Theory-Division algorithm. Prime and composite numbers. Tests of divisibility by 2, 3, 4, 5, 9 and 11. Multiples and factors. Factorisation Theorem. H.C.F. and L.C.M. Euclidean algorithm. Logarithms to base 10, laws of logarithms, use of logarithmic tables.

### 2. ALGEBRA

Basic Operations, simple factors, Remainder Theorem, H.C.F., L.C.M., Theory of polynomials, solutions of quadratic equations, relation between its roots and coefficients (Only real roots to be considered). Simultaneous linear equations in two unknowns -analytical and graphical solutions. Simultaneous linear inequations in two variables and their solutions. Practical problems leading to two simultaneous linear equations or inequations in two variables or quadratic equations in one variable & their solutions. Set language and set notation, Rational expressions and conditional identities, Laws of indices.

### 3. TRIGONOMETRY

Sine  $\times$ , cosine  $\times$ , Tangent  $\times$  when  $0^\circ < \times < 90^\circ$  Values of sin  $\times$ , cos  $\times$  and tan  $\times$ , for  $\times = 0^\circ, 30^\circ, 45^\circ, 60^\circ$  and  $90^\circ$  Simple trigonometric identities. Use of trigonometric tables. Simple cases of heights and distances.

### 4. GEOMETRY

Lines and angles, Plane and plane figures, Theorems on (i) Properties of angles at a point, (ii) Parallel lines, (iii) Sides and angles of a triangle, (iv) Congruency of triangles, (v) Similar triangles, (vi) Concurrence of medians and altitudes, (vii) Properties of angles, sides and diagonals of a parallelogram, rectangle and square, (viii) Circles and its properties including tangents and normals, (ix) Loci.

### 5. MENSURATION

Areas of squares, rectangles, parallelograms, triangle and circle. Areas of figures which can be split up into these figures (Field Book), Surface area and volume of cuboids, lateral surface and volume of right circular cones and cylinders, surface area and volume of spheres.

### 6. STATISTICS

Collection and tabulation of statistical data, Graphical representation frequency polygons, histograms, bar charts, pie charts etc. Measures of central tendency.

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## FINAL CUTOFF MARKS

Academy	2020(I)		2020(II)		2019(I)		2019(II)		2018(II)	
	Written cutoff marks	Final cutoff marks	Written cutoff marks	Final cutoff marks	Written cutoff marks	Final cutoff marks	Written cutoff marks	Final cutoff marks	Written cutoff marks	Final cutoff marks
IMA	130	250	139	263	116	242	134	258	116	242
INA	118	242	134	257	105	233	122	245	102	228
AFA	143	274	152	279	129	264	148	272	131	253
OTA(MEN)	93	173	97	179	78	160	95	176	80	162
OTA(WOMEN)	93	177	97	178	78	162	95	179	80	163

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**Pioneer's Candidate  
Appearing in SSB**



**Mr. Gaurav Taware  
(Lieutenant)**

Mandar sir helped me at every stage of my preparation, because of his whole hearted support I could achieve this success.



**Mr. Kamrul Bassar  
(Lieutenant)**

The best coaching centre for CDS preparation. The teachers here are experienced. The quality of disciplined teaching is something to cherish and if the candidate works hard, the kind of guidance that is given here is a sure shot success mantra.



**Mr. Ganesh  
(Sub. Lieutenant)**

Thanks to Khandekar sir, Specially For SSB Guidance. Without Sir's Support it would be Difficult to Clear SSB.

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