

NISHAN-E-SIKHI INSTITUTE OF SCIENCE AND TRAINING, KHADUR SAHIB

CDS WING

ENTRANCE EXAMINATION

CDS/AFCAT Training Program Integrated with B.Sc. (Non-Medical) Session 2027-28

ELIGIBILITY	EXAM DATE
Class XII Passed / Appearing in 2027 (with Physics, Chemistry & Mathematics)	April 25, 2027

1. EXAMINATION SCHEME

Component	Questions / Format	Marks	Recommended Time
STAGE: I (Written)			
Objective Test	100 MCQs	100	2 Hours
TOTAL		100	

STAGE: II (Interview)

Shortlisted candidates, based on their merit in the written examination, will be called for an interview.

Note:

- It is mandatory for the candidate to appear in both the stages of the examination as per schedule.
- The final result/list of selected candidates shall be displayed at the official website: www.nishan-e-sikhi.org

2. SYLLABUS

The entrance test will be based on the syllabus of English, Mathematics, Chemistry & Physics of 10+1 & 10+2 classes as outlined below. In addition questions of GK/Current affairs, reasoning & aptitude shall be asked.

SUBJECT & MARKS	SYLLABUS
MATHEMATICS — 20	Sets; Relations & Functions; Trigonometric Functions; Complex Numbers and Quadratic Equations; Permutations & Combinations; Sequence & Series; Straight Lines; Conic Sections; Introduction to Three-Dimensional Geometry; Limits & Derivatives; Statistics; Inverse Trigonometric Functions; Matrices; Determinants; Continuity & Differentiability; Integrals; Vectors; Three-dimensional Geometry; Probability.
PHYSICS — 20	Units & Measurements; Motion in a Straight Line; Motion in a Plane; Laws of Motion; Work, Energy & Power; Gravitation; Thermodynamics; Kinetic Theory; Oscillations & Waves; Electric Charges & Fields; Electrostatic Potential & Capacitance; Current Electricity; Moving Charges & Magnetism; Magnetism & Matter; Electromagnetic Induction & Waves; Ray Optics & Optical Instruments; Wave Optics; Atoms & Nuclei.

CHEMISTRY — 20

Basic Concepts of Chemistry; Atomic Structure; Periodic Classification of Elements; Chemical Bonding & Molecular Structure; Redox Reactions; Principles & Techniques of Organic Chemistry; Hydrocarbons; Solutions & Electrochemistry; Chemical Kinetics; d & f Block Elements; Haloalkanes & Haloarenes; Aldehydes, Ketones & Carboxylic Acid; Biomolecules.

ENGLISH — 20

Parts of Speech; Noun; Pronoun; Verb; Adjective; Adverb; Preposition; Conjunction; Interjection; Use of Tenses; Voice & Narration; Vocabulary; Synonyms/Antonyms; Idioms etc.

Questions on Sentence Gap Filling; Tenses & Clauses; Completion; Re-ordering; Transformation Correction & Improvement etc.

GK & CURRENT AFFAIRS — 10

Indian History; Geography; Constitution & Polity; Economy, Biology & Environment basics; Science & Technology; Defence Awareness; National & International Current Affairs (December 2026 onwards); Sports, Awards & Appointments.

QUANTITATIVE APTITUDE & REASONING— 10

Number System; Simplification; Percentage; Ratio & Proportion; Powers & Exponents; Series; Coding–Decoding; Blood Relations; Direction Sense; Basic Puzzles; Pattern Reasoning.

3. PERSONAL INTERVIEW

The shortlisted candidates shall be called for interview to test. Communication skills & Confidence • Academic Interest & Learning Attitude • Inclination for Defence Services • General Awareness • Discipline/Responsibility • Teamwork/Leadership Potential • Personal Attitude/Integrity.

SUGGESTED PREPARATION RESOURCES

Keep preparation focused: one primary resource + regular practice.

SUBJECT	SUGGESTED RESOURCE FOR PREPARATION
Mathematics	NCERT Mathematics XI–XII basics
Physics	NCERT Science XI–XII basics
Chemistry	NCERT Science XI–XII basics
English	General English Grammar books
GK	NCERT Social Science VI–X
Current Affairs	Newspaper, Monthly Current Affairs Magazine
Reasoning & Aptitude	Verbal & Non-Verbal Reasoning & Aptitude books