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A. Scheme of Examination

- 1. The Competitive examination comprises:
- (a) Written examination.
- (b) Interview for intelligence and personality test (vide Part 'B' of this Appendix) of such candidates as may be called for interview at one of the Services Selection Centres.

CDS: Syllabus, Scheme and Standard of Exam

AdChoices ▷

2. The subjects of the written examination, the time allowed and the

maximum marks allotted to each subject will be as follows:

(a) For Admission to Indian Military Academy, Naval Academy and Air Force Academy.

Subject	Duration	Maximum Marks
1. English	2 Hours	100
2. General Knowledge	2 Hours	100
3. Elementary Mathematics	2 Hours	100

(b) For Admission to Officers' Training Academy

Subject	Duration	Maximum Marks
1. English	2 Hrs	100
2. General Knowledge	2 Hrs.	100

The maximum marks allotted to the written examination and to the interviews will be equal for each course i.e. the maximum marks allotted to the written examination and to the interviews will be 300,300,300 and 200 each for admission to the Indian

Military Academy, Naval Academy, Air Force Academy and Officers' Training Academy respectively.

- 3. The papers in all the subjects will consist of objective type questions only. The question papers (test booklets) of general knowledge and elementary mathematics will be set in bilingually in Hindi as well as English.
- 4. In the question papers, wherever necessary, questions involving the metric system of Weights and Measures only will be set.
- 5. Candidates must write the papers in their own hand. In no circumstances will they be allowed the help of a scribe to write answers for them.
- 6. The Commission have discretion to fix qualifying marks in any or all the subjects of the examination.
- 7. The candidates are not permitted to use calculator for answering objective type papers (Test Booklets). They should not therefore, bring the same inside the Examination Hall.
- B. Standard and Syllabus of the Examination

Standard

The standard of the papers in Elementary Mathematics will be of Matriculation level.

The standard of papers in other subjects will approximately be such as may be expected of a graduate of an Indian University.

Syllabus

English (Code No. 01)

The question paper will be designed to test the candidates' understanding of English and workmanlike use of words.

General Knowledge (Code No. 02)

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.

Elementary Mathematics (Code No. 03)

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.

<u>Algebra</u>

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 equations 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.

Trigonometry

Sine x, cosine x, Tangent x when $0^0 \le x \le 90^0$

Values of sin x, cos x and tan x, for $x = 0^0$, 30^0 , 45^0 , 60^0 and 90^0

Simple trigonometric identities.

Use of trigonometric tables.

simple cases of heights and distances.

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.

Mensuration

Areas of squares, rectangles, parallelograms, triangle and circle. Areas of figures which can be split up into these figures (Field