

examination after they have been finally selected for training in the Indian Military Academy or the Indian Naval Academy or the Air Force Academy.

13. **WITHDRAWAL OF APPLICATIONS:** THE COMMISSION HAS INTRODUCED THE FACILITY OF WITHDRAWAL OF APPLICATION FOR THOSE CANDIDATES WHO DO NOT WANT TO APPEAR FOR THE EXAMINATION. INSTRUCTIONS ARE GIVEN IN APPENDIX-II (B).

**(Om Prakash)**  
**Under Secretary**  
**Union Public Service Commission**

#### APPENDIX-I

The scheme, standard and syllabus of the examination

#### A. SCHEME OF EXAMINATION

1. The Competitive examination comprises:

(a) Written examination as shown in para 2 below.

(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.

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, Indian Naval Academy and Air Force Academy:—

| Subject                   | Code | Duration | Maximum Marks |
|---------------------------|------|----------|---------------|
| 1. English                | 11   | 2 Hours  | 100           |
| 2. General Knowledge      | 12   | 2 Hours  | 100           |
| 3. Elementary Mathematics | 13   | 2 Hours  | 100           |

(b) For Admission to Officers' Training Academy :—

| Subject              | code | Duration | Maximum Marks |
|----------------------|------|----------|---------------|
| 1. English           | 11   | 2 Hours  | 100           |
| 2. General Knowledge | 12   | 2 Hours  | 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, Indian 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 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.

##### **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.

##### **TRIGONOMETRY**

Sine  $\times$ , cosine  $\times$ , Tangent  $\times$  when  $0^\circ \leq \times \leq 90^\circ$  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.

### **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 Book), Surface area and volume of cuboids, lateral surface and volume of right circular cones and cylinders, surface area and volume of spheres.

### **STATISTICS**

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

### **INTELLIGENCE AND PERSONALITY TEST**

The SSB procedure consists of two stage Selection process - stage I and stage II. Only those candidates who clear the stage I are permitted to appear for stage II. The details are:-

(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 [www.joinindianarmy.nic.in](http://www.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.

### **APPENDIX-II (A)**

#### **INSTRUCTIONS TO THE CANDIDATES FOR FILLING ONLINE APPLICATION**

Candidates are required to apply online by using the website [www.upsconline.nic.in](http://www.upsconline.nic.in)

Salient Features of the system to Online Applications Form are given here under:

1. Detailed instructions for filling up Online Applications are available on the above mentioned website.
2. Candidates will be required to complete the Online Application form containing two stages viz. Part I and Part II as per the instructions available in the above mentioned site through drop down menu.

3. The candidates are required to pay a fee of Rs. 200/- (Rupees two hundred only) [except SC/ST candidates and those specified in Note-2 of Point 4 (Fee) of the Notice who are exempted from payment of fee] either by depositing the money in any branch of SBI by cash or by using any Visa/Master/ Rupay Credit/Debit Card/UPI Payment or by using internet banking facility of any Bank
4. Before start filling up Online Application, a candidate must have his photograph and signature duly scanned in the .jpg format in such a manner that each file should not exceed 300 KB each and must not be less than 20 KB in size for the photograph and signature.
5. A candidate must have his Matriculation Certificate ready prior to filling up his application form. The details viz. Candidate's Name, Father's Name, Mother's Name & Date of Birth to be filled in Online Application Form of the candidate should match exactly with particulars mentioned in the Matriculation Certificate.
6. In addition to this, candidate should also have details of one photo ID viz. Aadhar Card/ Voter Card/ PAN Card/ Passport/ Driving License/ Any other photo ID Card issued by the State/Central Government. The details of this photo ID will have to be provided by the candidate while filling up the online application form. The candidates will have to upload a scanned copy of the Photo ID whose details have been provided in the online application by him/her. This photo ID will be used for all future referencing and the candidate is advised to carry this ID while appearing for examination/Personality Test/SSB.
7. The Online Applications (Part I and II) can be filled from 18<sup>th</sup> May, 2022 to 07<sup>th</sup> June, 2022 till 6:00 PM.
8. Applicants should avoid submitting multiple applications. However, if due to any unavoidable circumstances any applicant submits multiple applications then he must ensure that the applications with higher RID is complete in all respects.
9. In case of multiple applications, the applications with higher RID shall be entertained by the Commission and fee paid against one RID shall not be adjusted against any other RID.
10. The applicants must ensure that while filling their Application Form, they are providing their valid and active E-mail Ids as the Commission may use electronic mode of communication while contacting them at different stages of examination process.
11. The applicants are advised to check their e-mails at regular intervals and ensure that the email address ending with @nic.in are directed to their inbox folder and not to the SPAM folder or any other folder.
12. **Candidates are strongly advised to apply online well in time without waiting for the last date for submission of online application. Moreover, the Commission has introduced provision of withdrawal of application for the candidate, who does not want to appear at the Examination, he/she may withdraw his/her application.**