

Part 1: Examination Structure

Tier-I Examination (Objective Type)

Subject Category	Total Questions	Maximum Marks	Allocation of Time
A. General Intelligence and Reasoning	25	50	* 1 Hour (Standard duration) * 1 Hour and 20 Minutes (For candidates eligible for a scribe)
B. General Awareness	25	50	
C. Quantitative Aptitude	25	50	
D. English Comprehension	25	50	
Grand Total	100	200	

- **Format:** Questions are strictly objective multiple-choice items. Except for the English Comprehension section, all questions are provided in both English and Hindi.
- **Penalty for Wrong Answers:** A deduction of **0.50 marks** applies to every incorrect response.

Tier-II Examination (Comprehensive Structure)

Paper-I is a mandatory requirement across all standard job profiles. Paper-II is restricted exclusively to applicants shortlisted for the positions of Junior Statistical Officer (JSO) and Statistical Investigator Grade-II.

Detailed Breakdown of Paper-I

(Administered across Session-I and Session-II on a single day)

Operating Session	Structural Division	Specific Evaluation Module	Question Count	Marks Allotted	Segment Duration
Session-I (Total: 2 Hours 15 Minutes)	Section-I (<i>Automated lockout after 60 mins</i>)	Module-I: Mathematical Abilities Module-II: Reasoning	3030 Total = 60	$60 \times 3 = 180$	1 Hour (1 Hour 20 Minutes for scribe-assisted)

Operating Session	Structural Division	Specific Evaluation Module	Question Count	Marks Allotted	Segment Duration
		and General Intelligence			candidates)
	Section-II (Automated lockout after 60 mins)	Module-I: English Language and Comprehension Module-II: General Awareness	4525 Total = 70	$70 \times 3 = 210$	1 Hour (1 Hour 20 Minutes for scribe-assisted candidates)
	Section-III (Mandatory Qualifying Segment)	Module-I: Computer Knowledge Module	20	$20 \times 3 = 60$	15 Minutes (20 Minutes for scribe-assisted candidates)
Intermission	<i>Candidate Re-registration Break</i>				
Session-II (Total: 15 Minutes)	Section-III (Contd.)	Module-II: Data Entry Speed Test (DEST)(Typing evaluation targeting roughly 2000 key depressions)	Single Typing Assignment	Qualifying Nature	15 Minutes (20 Minutes for scribe-assisted candidates)

Detailed Breakdown of Paper-II

Paper	Focus Domain	Total Questions	Maximum Marks	Segment Duration
Paper-II	Statistics	100	$100 \times 2 = 200$	2 Hours (2 Hours 40 Minutes for scribe-assisted candidates)

- **Penalty for Wrong Answers:** In Paper-I, a penalty of **1 mark** is deducted for every incorrect response in Section-I, Section-II, and Module-I of Section-III. For Paper-II, the penalty for an incorrect response is set at **0.50 marks**.
-

Part 2: Section-Wise Indicative Syllabus

1. Tier-I Syllabus Outline

- **General Intelligence & Reasoning:** Evaluates logical capabilities through verbal and non-verbal problem-solving frameworks. Includes conceptual themes like space visualization, semantic and figural classifications, arithmetical series, symbolic trends, analogy variations, patterns mapping (folding/unfolding), Venn diagrams, critical assessment models, along with elements of emotional and social intelligence.
 - **General Awareness:** Designed to examine the applicant's consciousness regarding environmental dynamics and real-world societal implications. Covers current ongoing affairs, observations rooted in everyday scientific practices, alongside detailed aspects of India and adjacent territories with focus on History, Geography, Core Culture, Economic Frameworks, Administrative Policies, and Scientific Research domains.
 - **Quantitative Aptitude:** Measures proficiency and foundational clarity regarding numerical operations. Core focus areas include decimal systems, fractions, percentage applications, ratio/proportion concepts, interest models (simple/compound), profit-loss frameworks, discounts, business partnerships, mixtures, motion-time-distance variables, work-time distributions, linear equations, geometry essentials (triangles, circle attributes, tangents), comprehensive mensuration properties, trigonometry principles (ratios, identities, heights), and standard statistical charts.
 - **English Comprehension:** Focuses on language literacy, verifying capabilities in fundamental grammar usage, structural synthesis, and baseline composition competencies.
-

2. Tier-II Syllabus Outline

Paper-I: Section-I

- **Module-I (Mathematical Abilities):**
 - *Number Fundamentals:* Operations on whole numbers, decimal formats, fractional relations.
 - *Arithmetic Calculus:* Percentages, averages, square roots, ratio-proportions, profit-loss dynamics, complex discounts, partnership setups, liquid mixtures, time-work schedules, and distance-speed computation.
 - *Algebraic Systems:* Foundation identities of school-level algebra, graphs mapping linear relations, and elementary surds.

- *Geometric Properties*: Structural traits of triangles (congruence, similarity matrices, specialized centers) and circle traits (chord mechanics, tangent intersections).
- *Mensuration Standards*: Comprehensive calculation of area and volume for polygons, circles, prisms, cylinders, standard spheres, cones, parallelepipeds, and regular pyramids.
- *Trigonometry Functions*: Ratios, complementary angle values, standard identities (such as

$$\sin^2\theta + \cos^2\theta = 1$$

), and foundational height/distance evaluations.

- *Statistical Analysis & Probability*: Graphical analytics (histograms, bar matrices, pie structures), central tendencies (mean, median, mode calculations, standard deviations), and base probability assessments.
- **Module-II (Reasoning and General Intelligence)**: Advanced logical analysis incorporating verbal and non-verbal parameters. Involves symbol manipulation, figural classification matrices, series analysis, structural puzzle solutions, embedded designs, word-building tasks, coding frameworks, and cognitive social-emotional assessment tools.

Paper-I: Section-II

- **Module-I (English Language and Comprehension)**: Vocabulary checks, structural grammar accuracy, synonym/antonym analysis, error detection exercises, blank fills, idiomatic phrases, active-to-passive transformations, narrative alterations (direct/indirect speech), line shuffling within passages, cloze structures, and comprehension texts. Testing relies on 3 or more textual passages, ensuring at least one narrative is simple/story-based while the remaining focus on modern reportage or analytical editorials.
- **Module-II (General Awareness)**: Deep societal context evaluation, encompassing current global/national developments, foundational scientific principles observed in daily life, alongside structural themes of India and its regional neighborhood covering History, Political Frameworks, Cultural Evolution, and Scientific Initiatives.

Paper-I: Section-III

- **Module-I (Computer Proficiency)**:
 - *Hardware & Core Architecture*: Central Processing Unit (CPU) functions, input/output device mapping, memory distribution models, archiving devices, computer PORTS, navigation tools like Windows Explorer, and standard keyboard shortcuts.
 - *Software Applications*: Operation dynamics of Windows OS environments alongside the execution of core utility suites like MS Word, MS Excel, and PowerPoint.
 - *Internet Utility & Services*: Web browsing techniques, search engines, download/upload pathways, email configuration/management, and electronic banking protocols.

- *Networking & Cyber Security Infrastructure:* Networking devices, standard communication protocols, mitigation of digital security risks (including malware, network worms, Trojan vectors, hacking attempts), and baseline preventive strategies.

Paper-II: Statistics

- **Data Organization:** Primary vs. secondary collection methods, frequency matrices, text tabulation, diagrammatic and chart representation models.
- **Central Variations & Dispersion Metrics:** Measures of central tendency (mean, median, mode), position parameters (quartiles, deciles, percentiles), variation scales (range, quartile/mean deviations, standard deviation variance), and relative dispersion attributes.
- **Moments, Skewness, & Kurtosis Profiles:** Interrelationships between different moments, structural meaning, and calculation methods for skewness and kurtosis.
- **Correlation and Regression Models:** Scatter charting, simple correlation matrices, regression equations, Spearman's rank coefficients, qualitative attributes association, and multiple/partial correlation tracks (restricted to 3 distinct variables).
- **Probability Models & Random Variables:** Foundations of conditional and compound probability spaces, Bayes' theorem execution, expectations metrics, variance properties, alongside Binomial, Poisson, Normal, and Exponential distribution models.
- **Sampling Architecture & Statistical Inference:** Population vs. sample mechanics, handling sampling/non-sampling biases, executing probability/non-probability selections (stratified, cluster, systematic, etc.), estimation procedures (maximum likelihood, least squares), and formal hypothesis testing using Z , t , χ^2 , and F indicators.
- **Variance Analysis, Time Trends, & Indices:** One-way and two-way classifications of ANOVA tables, parsing time-series trend vectors, index number derivation models, and computing cost-of-living metrics.