

Marks obtained in Computer based Multiple Choice written examination and Marks obtained in Interview for Personality Test will be counted for ranking.

Candidates who obtain such minimum qualifying marks in Computer based Multiple Choice written examination, shall be summoned for an interview for a Personality Test. The number of candidates to be summoned for interview will be about thrice of the number of vacancies to be filled. The interview will carry 100 marks (with no minimum qualifying marks).

The candidate will be interviewed by a Board who will have before them a record of his career. He / She will be asked questions on matters of general interest. The test is intended to judge the mental calibre of a candidate. In broad terms this is an assessment of not only intellectual qualities but also social traits and his interest in current affairs.

- (i) The ICCR reserves the right to make changes in the Scheme of Examination.
- (ii) Tentative Answer Keys will be placed on ICCR's website after the Examination. Candidates may go through the Answer Keys and submit representations, if any, on payment of Rs 100/- per question within the time limit given by the ICCR through on-line modality only. Any representation regarding Answer Keys received within the time limit fixed by the ICCR at the time of uploading of the Answer Keys will be scrutinized before finalizing the Answer Keys and the decision of the ICCR in this regard will be final. No representation regarding Answer Keys shall be entertained later.
- (iii) The dates of examinations indicated in the Notice are tentative. Any change in the schedule of examinations will be informed to the candidates only through ICCR's website.
- (iv) In the question papers, wherever necessary, the Metric systems of weights and measures only will be used.
- (v) There shall be no provision for re-evaluation/ re-checking of the scores. No correspondence in this regard shall be entertained.

Tier I (Computer Based Examination): Duration: 03.00 hrs

S. No.	Subject	No. of Question	Maximum Marks	Duration
a.	English Language, Grammar & Comprehension	30	60	180 Minutes 240 Minutes for candidates using scribe
b.	Quantitative Aptitude & Numerical Ability	45	90	
c.	General Intelligence & Reasoning	45	90	
d.	General Awareness including Finance, Accounting & Statistics	60	120	

- Tier-I will consist of Objective Type, Multiple Choice Questions only. The questions will be set both in English & Hindi except for English Grammar, Language & Comprehension.
- In Tier-I, there will be negative marking of 0.25 for each wrong answer

Tier II

Computer Efficiency Test

Duration 60 Minutes

Maximum Marks- 100 Marks

Tier I: Indicative Syllabus

English Language, Grammar & Comprehension: Questions in this component will be designed to test the candidate's understanding and knowledge of English Language and will be based on spot the error, fill in the blanks, synonyms, antonyms, spelling/ detecting misspelled words, idioms & phrases, one word substitution, improvement of sentences, active/ passive voice of verbs, conversion into direct/ indirect narration, shuffling of sentence parts, shuffling of sentences in a passage, cloze passage & comprehension passage

Quantitative Aptitude & Numerical Ability: The questions will be designed to test the ability of appropriate use of numbers and number sense of the candidate. The scope of the test will be computation of Whole Numbers, Decimals, Fractions and Relationships between numbers, Percentage. Ratio & Proportion, Square Roots, Averages, Interest, Profit and Loss, Discount, Partnership Business, Mixture and Alligation, Time and distance, Time & Work, Basic Algebraic Identities of School Algebra & Elementary Surds, Graphs of Linear Equations, Triangle and its various kinds of Centres, Congruence and similarity of Triangles, Circle and its Chords, Tangents, Angles subtended by Chords of a Circle, Common Tangents to two or more circles, Triangle, Quadrilaterals, Regular Polygons, Circle, Right Prism, Right Circular Cone, Right Circular Cylinder, Sphere, Hemispheres, Rectangular Parallelepiped, Regular Right Pyramid with Triangular or Square Base, Trigonometric Ratio, Degree and Radian Measures, Standard Identities, Complementary Angles, Heights and Distances, Histogram, Frequency Polygon, Bar diagram & Pie chart.

General Intelligence & Reasoning: It would include questions of both verbal and non-verbal type. This component may include questions on analogies, similarities and differences, space visualization, spatial orientation, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship concepts, arithmetical reasoning and figural classification, arithmetic number series, non-verbal series, Coding and Decoding, statement conclusion, syllogistic reasoning etc. The topics are, Semantic Analogy, Symbolic/ Number Analogy, Figural Analogy, Semantic Classification, Symbolic/ Number Classification, Figural Classification, Semantic Series, Number Series, Figural Series, Problem Solving, Word Building, Coding & De-coding, Numerical Operations, Symbolic Operations, Trends, Space Orientation, Space Visualization, Venn Diagrams, Drawing inferences, Punched Hole/ Pattern- Folding & un-Folding, Figural Pattern- Folding and Completion, Indexing, Address Matching, Date & City Matching, Classification of Centre Codes/Roll Numbers, Small & Capital letters/ Numbers Coding, Decoding and Classification, Embedded Figures, Critical Thinking, Emotional Intelligence, Social Intelligence, Other sub-topics, if any.

General Awareness including Finance, Accounting & Statistics: Questions in this component will be aimed at testing the candidates' general awareness of the environment around him and its application to society. Questions will also be designed to test knowledge of current events and of such matters of every day observations and experience in their scientific aspect as may be expected of any educated person. The test will also include questions relating to India and its neighbouring countries especially pertaining History, Culture, Geography, Economic Scene, General Policy & Scientific Research.

Fundamental principles and basic concept of Accounting:

Financial Accounting: Nature and scope, Limitations of Financial Accounting, Basic concepts and Conventions, Generally Accepted Accounting Principles.

Basic concepts of accounting: Single and double entry, Books of original Entry, Bank Reconciliation, Journal, ledgers, Trial Balance, Rectification of Errors, Manufacturing, Trading, Profit & loss Appropriation Accounts, Balance Sheet Distinction between Capital and Revenue Expenditure, Depreciation Accounting, Valuation of Inventories, Non-profit organisations Accounts, Receipts and Payments and Income & Expenditure Accounts, Bills of Exchange, Self Balancing Ledgers.

Indian Economy:

- Nature of the Indian Economy Role of different sectors-Role of Agriculture, Industry and Services-their problems and growth;
- National Income of India-Concepts of national income, Different methods of measuring national income.
- Population-Its size, rate of growth and its implication on economic growth.
- Poverty and unemployment- Absolute and relative poverty, types, causes and incidence of unemployment.
- Infrastructure-Energy, Transportation, Communication.

Economic Reforms in India: Economic reforms since 1991; Liberalisation, Privatisation, Globalisation and Disinvestment.

Money and Banking:

Monetary/ Fiscal policy- Role and functions of Reserve Bank of India; functions of commercial Banks/RRB/Payment Banks.

Statistics

Collection, Classification and Presentation of Statistical Data – Primary and Secondary Data, Methods of Data collection; Tabulation of Data; Graphs and Charts; Frequency Distributions; Diagrammatic Presentation of Frequency Distributions.

Measures of Central Tendency- Common measures of central tendency – mean median and mode; Partition values- quartiles, deciles, percentiles.

Measures of Dispersion- Common measures dispersion – range, quartile deviations, mean deviation and standard deviation; Measures of relative dispersion.

Moments, Skewness and Kurtosis – Different types of moments and their relationship; meaning of skewness and kurtosis; different measures of skewness and kurtosis.

Correlation and Regression – Scatter diagram; simple correlation coefficient; simple regression lines; Spearman's rank correlation; Measures of association of attributes; Multiple regression; Multiple and partial correlation (For three variables only).

Probability Theory – Meaning of probability; Different definitions of probability; Conditional probability; Compound probability; Independent events; Bayes' theorem.

Random Variable and Probability Distributions – Random variable; Probability functions; Expectation and Variance of a random variable; Higher moments of a random variable; Binomial, Poisson, Normal and Exponential distributions; Joint distribution of two random variable (discrete).

Sampling Theory – Concept of population and sample; Parameter and statistic, Sampling and non-sampling errors; Probability and non-probability sampling techniques (simple random sampling, stratified sampling, multistage sampling,

multiphase sampling, cluster sampling, systematic sampling, purposive sampling, convenience sampling and quota sampling); Sampling distribution (statement only); Sample size decisions.

Statistical Inference - Point estimation and interval estimation, Properties of a good estimator, Methods of estimation (Moments method, Maximum likelihood method, Least squares method), Testing of hypothesis, Basic concept of testing, Small sample and large sample tests, Tests based on Z, t, Chi-square and F statistic, Confidence intervals.

Analysis of Variance - Analysis of one-way classified data and two-way classified data.

Time Series Analysis - Components of time series, Determinations of trend component by different methods, Measurement of seasonal variation by different methods.

Index Numbers - Meaning of Index Numbers, Problems in the construction of index numbers, Types of index number, Different formulae, Base shifting and splicing of index numbers, Cost of living Index Numbers, Uses of Index Numbers.

Tier-II

Computer Proficiency Test (CPT): - Duration 60 Minutes

The ICCR will hold Computer Proficiency Test (CPT), comprising of three modules: (i) Word Processing, (ii) Spread Sheet and (iii) Generation of Slides. The CPT will be conducted in the manner decided by the ICCR. No exemption from CPT is allowed for any category of PwD candidates. CPT will be of qualifying nature.

Detailed instructions regarding CPT will be provided by ICCR to eligible candidates declared qualified for appearing in the CPT.

13. Admission to the Examination:

- (i) All candidates who register themselves in response to this advertisement by the closing date and time and whose applications are found to be in order and are provisionally accepted by the ICCR as per the terms and conditions of this Notice of Examination, will be assigned Roll numbers and issued Admission Certificates (AC) for appearing in the Computer Based Examination (Tier-I). Subsequently, qualified candidates will be issued Admission Certificate for the next stage of the Examination.
- (ii) The ICCR will not undertake detailed scrutiny of applications for the eligibility and other aspects at the time of written examination and, therefore, candidature will be accepted only provisionally. The candidates are advised to go through the requirements of educational qualification, age, physical and medical standards etc. and satisfy themselves that they are eligible for the post(s). Copies of supporting documents will be sought at the time of Document Verification. When scrutiny is undertaken, if any claim made in the application is not found substantiated, the candidature will be cancelled and the ICCR's decision shall be final.
- (iii) Admission Certificates for the Examination will be uploaded on ICCR's website. Admission Certificates will not be issued by post for any stage of examination. Therefore candidates are advised to visit the websites of concerned Regional Office and SSC-HQ regularly for updates and information about the examination.