

## SSC CGL Tier II Syllabus

### CGL Tier II Syllabus Paper 1 - Quantitative Aptitude

|  |                            |                         |                        |   |                              |
|--|----------------------------|-------------------------|------------------------|---|------------------------------|
| Frequency polygon                                    | Sphere                     | Time and distance       | Tangents               | Fractions and relationships between numbers | Quadrilaterals               |
| Bar diagram & Pie chart                              | Hemispheres                | Time & Work             | Interest               | Percentage                                  | Regular Polygons             |
| Regular Right Pyramid with triangular or square base | Rectangular Parallelepiped | Elementary surds        | Profit and Loss        | Ratio & Proportion                          | Square roots                 |
| Trigonometric ratio                                  | Complementary angles       | Right Prism             | Discount               | Graphs of Linear Equations                  | Averages                     |
| Degree and Radian Measures                           | Heights and Distances      | Right Circular Cone     | Partnership Business   | Triangle                                    | Computation of whole numbers |
| Standard Identities                                  | Histogram                  | Right Circular Cylinder | Mixture and Alligation | Circle and its chords                       | Decimals                     |

### CGL Tier II Syllabus Paper 2 - English Language & Comprehension

|  |                                      |                    |
|--|--------------------------------------|--------------------|
| Active/ passive voice of verbs             | Spelling/ detecting misspelled words | Spot the error     |
| Conversion into direct/ indirect narration | Idioms & phrases                     | Fill in the blanks |
| Shuffling of sentence parts                | One-word substitution                | Synonyms           |

|                                     |                          |                       |
|-------------------------------------|--------------------------|-----------------------|
| Shuffling of sentences in a passage | Improvement of sentences | Antonyms              |
| Cloze passage                       | Sentence Structure       | Comprehension passage |

### CGL Tier II Syllabus Paper 3 - Statistics (Junior Statistical Officer)

| Subject  | Topics  |
|--|---|
| Collection, Classification, and Presentation of Statistical Data | <ul style="list-style-type: none"> <li>● Primary and Secondary data</li> <li>● Methods of data collection</li> <li>● Tabulation of data</li> <li>● Graphs and charts</li> <li>● Frequency distributions</li> <li>● Diagrammatic presentation of frequency distributions</li> </ul>                                  |
| Measures of Central Tendency                                     | <ul style="list-style-type: none"> <li>● Mean</li> <li>● Median</li> <li>● Mode</li> <li>● Partition values- quartiles, deciles, percentiles.</li> </ul>  |
| Measures of Dispersion   | <ul style="list-style-type: none"> <li>● Range</li> <li>● Quartile deviations</li> <li>● Mean deviation and standard deviation</li> <li>● Measures of relative dispersion</li> </ul>  |
| Moments, Skewness and Kurtosis                                   | <ul style="list-style-type: none"> <li>● Different types of moments and their relationship</li> <li>● Meaning of skewness and kurtosis</li> <li>● Different measures of skewness and kurtosis.</li> </ul>   |
| Correlation and Regression                                       | <ul style="list-style-type: none"> <li>● Scatter diagram</li> <li>● Simple correlation coefficient</li> <li>● Simple regression lines</li> <li>● Spearman's rank correlation</li> <li>● Measures of association of attributes</li> <li>● Multiple regression</li> <li>● Multiple and partial correlation</li> </ul> |

|   |  |
|---|--|
| Probability Theory                            | <ul style="list-style-type: none"> <li>● Meaning of probability</li> <li>● Different definitions of probability</li> <li>● Conditional probability</li> <li>● Compound probability</li> <li>● Independent events</li> <li>● Bayes' theorem.</li> </ul>   |
| Random Variable and Probability Distributions | <ul style="list-style-type: none"> <li>● Random variable</li> <li>● Probability functions</li> <li>● Expectation and Variance of a random variable</li> <li>● Higher moments of a random variable</li> <li>● Binomial, Poisson, Normal and Exponential distributions</li> <li>● Joint distribution of two random variables (discrete).</li> </ul>  |
| Sampling Theory                               | <ul style="list-style-type: none"> <li>● Concept of population and sample</li> <li>● Parameter and statistic, Sampling and non-sampling errors</li> <li>● Probability and nonprobability sampling techniques (simple random sampling, stratified sampling, multistage sampling, multiphase sampling, cluster sampling, systematic sampling, purposive sampling, convenience sampling and quota sampling)</li> <li>● Sampling distribution (statement only);</li> <li>● Sample size decisions.</li> </ul> |
| Statistical Inference                         | <ul style="list-style-type: none"> <li>● Point estimation and interval estimation</li> <li>● Properties of a good estimator</li> <li>● Methods of estimation (Moments method, Maximum likelihood method, Least squares method)</li> <li>● Testing of hypothesis</li> <li>● Basic concept of testing</li> <li>● Small sample and large sample tests</li> <li>● Tests based on Z, t, Chi-square and F statistic, Confidence intervals</li> </ul>   |
| Analysis of Variance                          | <ul style="list-style-type: none"> <li>● Analysis of one-way classified data and two way classified data</li> </ul>  |
| Time Series Analysis                          | <ul style="list-style-type: none"> <li>● Components of time series</li> <li>● Determinations of trend component by different methods</li> <li>● Measurement of seasonal variation by different methods.</li> </ul>   |

|               |  |
|---------------|--|
| Index Numbers | <ul style="list-style-type: none"> <li>● Meaning of Index Numbers</li> <li>● Problems in the construction of index numbers</li> <li>● Types of index number</li> <li>● Different formulae</li> <li>● Base shifting and splicing of index numbers</li> <li>● Cost of living Index Numbers</li> <li>● Uses of Index Numbers</li> </ul> |
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## CGL Tier II Syllabus Paper 4: General Studies-Finance and Economics (Assistant Audit Officer/ Assistant Accounts Officer)

### Part A: Fundamental principles and basic concept of Accounting - (80 Marks)

- 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

### Part B: Economics and Governance - (120 marks)

- Comptroller & Auditor General of India - Constitutional provisions, Role and responsibility
- Finance Commission - Role and functions
- Basic Concept of Economics and introduction to Microeconomics - Definition, scope and nature of Economics, Methods of economic study and Central problems of an economy and Production possibilities curve
- Theory of Demand and Supply - Meaning and determinants of demand, Law of demand and Elasticity of demand, Price, income and cross elasticity; Theory of consumer's behavior
- Marshallian approach and Indifference curve approach, Meaning and determinants of supply, Law of supply and Elasticity of Supply.
- Theory of Production and cost - Meaning and Factors of production; Laws of production- Law of variable proportions and Laws of returns to scale.
- Forms of Market and price determination in different markets - Various forms of markets - Perfect Competition, Monopoly, Monopolistic Competition and Oligopoly ad Price determination in these markets
- 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.
  - Budget and Fiscal deficits and Balance of payments.
  - Fiscal Responsibility and Budget Management Act, 2003